

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

WATERMASTER SERVICE
in the
WEST COAST BASIN
Los Angeles County

July 1, 2002 - June 30, 2003

September 2003

GRAY DAVIS
Governor
State of California

MARY D. NICHOLS
Secretary for Resources
The Resources Agency

MICHAEL J. SPEAR
Interim Director
Department of Water
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State of California
DEPARTMENT OF WATER RESOURCES
770 Fairmont Avenue, Suite 102
Glendale, CA 91203-1035

This Report is available online at:
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FOREWORD

The Department of Water Resources, as Watermaster, is pleased to submit this report on water supply conditions in the West Coast Basin during the 2002-2003 fiscal year. The report is prepared annually in accordance with the provisions of the Los Angeles County Superior Court Judgment in the West Coast Basin. The Judgment, together with Part 4, Division 2, of the California Water Code, authorizes this publication and the Department's administration of the Watermaster Service Area.

In the West Coast Basin, the Parties' allowable extraction for 2002-2003 was 76,997 acre-feet, of which 46,950 acre-feet of Adjudicated Right was extracted and 4,339 acre-feet was left in the ground as in-lieu replenishment, with 11,991 acre-feet kept as carryover.

The report includes information not only on groundwater extractions but also on use of imported water, recycled water, recharge operations, and administration of the water exchange pool plus a financial report on Watermaster Service during the 2002-2003 fiscal year.

The Watermaster wishes to acknowledge and express appreciation for the assistance and support received from the many public and private organizations and individuals whose contributions were essential to this report.

The success of Watermaster Service is dependent on continued cooperation and communication between the Watermaster and the water users.

Mark Stuart, P.E., Chief
Southern District
and Acting Watermaster

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PLATES

(Bound at back of report)

* Note Plates 1 and 2 have been removed and are currently under revision.

3	Locations of Wells
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STATE OF CALIFORNIA
Gray Davis, Governor

THE RESOURCES AGENCY
Mary D. Nichols, Secretary for Resources

DEPARTMENT OF WATER RESOURCES
Michael J. Spear, Interim Director

Steve Verigin, (Acting)
Chief Deputy Director

Vernon T. Glover
Deputy Director

Jonas Minton
Deputy Director

Peter Garriss
Deputy Director

L. Lucinda Chipponeri
Deputy Director for Legislation

Peggy Bernardy
Chief Counsel

Southern District

Mark Stuart, P.E. Chief and Acting Watermaster

This report was prepared by

Milan Cernosek, P. E. Engineer, Water Resources

With assistance from

Leonard C. L. Nagler, P. E. Senior Engineer, Water Resources (Retired)
Mila Dery Staff Services Analyst
Linda Inouye Secretary
Ruben M. Martinez Water Resources Technician II
Bettye Whiteside Staff Services Analyst
Phyllis Yates Research Writer

I. INTRODUCTION

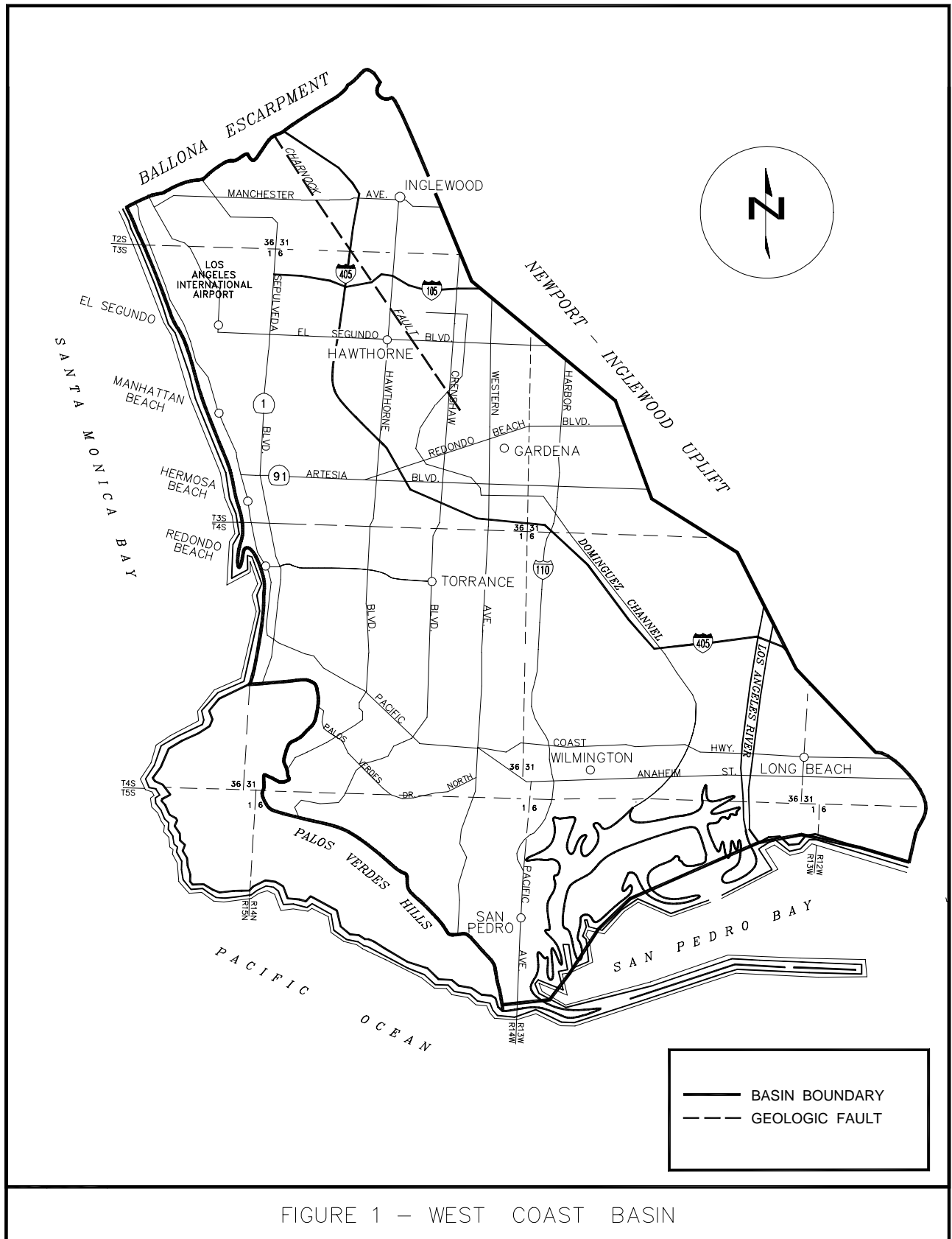
The West Coast Basin (Figure 1) is a relatively small groundwater basin underlying the southwestern part of the Los Angeles Coastal Plain. It is bounded on the north by the Ballona Escarpment, on the east by the Newport-Inglewood Uplift, and on the south and west by the Pacific Ocean. The Basin's 160 square miles include 20 incorporated cities. A substantial portion of the water they need can be pumped directly from the groundwater in storage.

In 1945, when intrusion of sea water caused by declining water levels threatened the quality of the groundwater supply, legal action was begun to halt the overdraft and prevent serious damage to the Basin. Today, groundwater extractions in the Basin are monitored by a court-appointed Watermaster (Department of Water Resources), whose primary job is to control groundwater extractions and report all significant water-related events in the Basin to the Superior Court of Los Angeles County and parties to the West Coast Basin Judgment. The Basin has been operated under the management of the Watermaster since June 1961.

Appendix A contains the continuing history of Watermaster Service operations and the duties and functions of the Watermaster.

This report summarizes the Watermaster's work, conditions of groundwater supply, quantity of water used, and groundwater replenishment and includes a financial report for the 2002-2003 fiscal year.

There are three parts to the report: (1) Introduction, (2) Summary of Water Conditions and Operations, and (3) Details of Water Use and Operations. The third part contains the figures and tables on water supply, use, and replenishment and administration costs. The appendices contain further backup data for these tables.



II. SUMMARY OF WATER CONDITIONS AND OPERATIONS

Tables and figures referred to in the text are for fiscal year 2002-2003.

Average Precipitation

- 12.14 inches, 95 percent of long-time average of 12.73 inches.

West Coast Basin Wells

- 849 total: 68 active, 50 inactive, 214 injection, and 517 observation.

Groundwater Level Elevations

- Generally, spring 2003 water levels were lower (less than 15 feet) along the injection barrier than spring of 2002 (Figure 7). Other water level drops were registered in Inglewood, Gardena, and Wilmington. The remainder of the basin had generally higher water levels.

Spreading Operations

- Los Angeles County Department of Public Works spread 141,414 acre-feet of water (Table 4), 26.5 percent more than last fiscal year, in the Montebello Forebay area.

Water Quality - The following averages were compiled for 2002-2003.

Mean Values of Concentrations, in mg/L

<u>Quality Factor</u>	<u>Groundwater</u>	<u>Colorado River Water at Lake Mathews</u>	<u>State Water Project Water at Castaic Lake</u>
Chloride	83	79	81
Sulfate	17	233	48
Hardness (as CaCo3)	190	287	123
TDS	500	593	303

Overextractions

- Four parties extracted a total of 338 acre-feet more than their allocation (Table 1).

Imports

- 210,867 acre-feet were imported, excluding imports by one nonparty.
- Nonparty: California-American Water Company imported 1,979 acre-feet from Central Basin groundwater basin.

Exports

- Southern California Water Company exported groundwater to portions of its service area lying west of the Palos Verdes Hills.

Water Supply and Water Use Conditions

- In 2002-2003, total water use (including recycled water use) decreased by 3 percent over the previous year.
- Groundwater extractions have averaged about 55,000 acre-feet since 1979-80.
- In 2002-2003, West Coast Basin Parties imported 210,867 acre-feet and extracted 46,950 acre-feet of Adjudicated Rights. Extractions were 14.6 percent less than average because of in-lieu replenishments.
- The growing water demand has been met by supplemental sources, and the trend toward increasing imports continues.

In-lieu Replenishment Program

- Four parties participated in the in-lieu program totaling 4,339.32 acre-feet (Table 9).

Water Rights

- There were no requests for exchange pool water.
- There were 18 water right leases totaling 23,255.29 acre-feet.

On August 30, 2001, Los Angeles Superior Court Judge Robert H. O'Brien granted the motion of the Water Replenishment District of Southern California to intervene in the Judgment and declared that the Goldsworthy Desalter Project does not require an Adjudicated Right and will not cause any party's Adjudicated Right to be debited.

The Court ordered that the project may extract up to 3,300 acre-feet annually of saline water (groundwater containing greater than 1,000 parts per million chlorides) without first obtaining an Adjudicated Right and without said extractions being debited against the Adjudicated Rights of any party.

The Goldsworthy Desalter extracted 1,735.99 acre-feet from November 27, 2001 through June 2002. Chloride concentrations did not exceed 1,000 ppm and ranged from 620 ppm on November 27, 2001 to 870 ppm on June 4, 2002. The court granted a period of 135 days until June 25, 2002, during which the saline requirement did not apply and alternatives would be evaluated.

On June 24, 2002, Los Angeles Superior Court Judge Willhite extended the deadline to December 31, 2002 for meeting prescribed chloride concentration levels.

The Goldsworthy Desalter extracted 2,451.46 acre-feet from July 2002 through June 2003. Chloride concentrations averaged 872.5 ppm for the period of June 13 to July 12, 2002 and 812 ppm for the period August 13 to September 12, 2002.

On October 28, 2002, the reported chloride concentration met the minimum standard for the first time (1400 ppm). On December 27, 2002, Watermaster sampled the Goldsworthy extraction and results agreed with reported test values with the chloride concentration of 1,210 ppm. The Desalter operated within the criteria prescribed by the court for the remainder of the fiscal year. Thereafter, monthly chloride concentrations ranged from 1,122 ppm to 1,375 ppm.

There were three permanent transfers of water right ownership during the 2002-2003 fiscal year:

- Conocophillips Company acquired 6,170.00 APA from Tosco Corporation through merger.
- Kinder Morgan Liquids Terminals, LLC purchased 167.00 APA from GATX Tank Storage Terminals Corp.
- Shell Oil Products US purchased 3,432.00 APA from Equilon Enterprises, LLC.

Nonparties and Parties with Zero Adjudicated Rights

- One party with zero adjudicated rights leased 12.10 acre-feet and extracted 4.20 acre-feet.

2002-2003 Budget

- The tentative budget was mailed on June 6, 2002, and it became the final budget on July 1, 2002. (Table 12)
- Parties are not billed for amounts less than \$3 or if their accounts are inactive for three or more years.

Oil Recovery and Basin Cleanup

- Chevron, USA operated an oil recovery and basin cleanup program at its El Segundo refinery.
- Mobil Oil Corporation (Oil Recovery) pumped 1,129 acre-feet this year as part of a hydrocarbon clean-up program.
- California Water Service Company (Dominguez) pumped 907 acre-feet this year as part of the West Basin Desalter Project (Brewer Desalter).

- Water Replenishment District pumped 2,451 acre-feet at its Goldsworthy Desalter.

The following table summarizes pertinent data for fiscal years 2001-2002 and 2002-2003.

Item	Fiscal year 2001-2002	Fiscal year 2002-2003
Active pumps	24	29
Active nonparties	0	0
Adjudicated Rights, in acre-feet	64,468.25	64,468.25
Watermaster expenses, total	215,529	201,709
Watermaster expenses, per Adjudicated Right	\$3.34	\$3.13
Rainfall, in inches	3.65	12.14
Injection at barrier projects, in acre-feet (includes recycled water)	25,851	
Extractions, in acre-feet*	51,922.07	51,437.95
Imports, in acre-feet**	218,855***	210,867
Recycled water, in acre-feet	27,307	27,080
Exports, in acre-feet	0	0
Total water use (by parties), in acre-feet	298,084***	289,385
* Includes water pumped for oil recovery production by Mobil Oil Corporation and Desalter production by California Water Service Company (Dominguez) and WRD Goldsworthy Desalter.		
** Includes barrier imports by Los Angeles County Department of Public Works.		
*** Revised values.		

Tables 1, 2, and Figure 2 summarize and illustrate the Basin's operations for the fiscal year 2002-2003. The details of operations and the remaining tables and figures are given in the next section.

TABLE 1. OVEREXTRACTIONS*

In acre-feet

Party	(1) Adjudicated Right	(2) Allowable Extraction**	(3) Amount Pumped	(4) Overextraction (2) - (3)	(5) Allowable Overextraction #
Fujimoto, S.R. and S.T. and J.K.	20.00	36.28	48.31	-12.03 ##	2.00
Hillside Memorial Park	68.70	-4.86	140.51	-145.37 ##	6.87
Pacific Crest Cemetery Co.	39.40	-8.07	47.96	-56.03 ##	3.94
Roman Catholic Archbishop of L.A.	72.30	74.21	198.89	-124.68 ##	7.23
Total				-338.11	
** See Table 2 for derivation.					
# Computed as 2 acre-feet or 10 percent of Adjudicated Right, whichever is greater including carryover provisions.					
## Violation of Judgment. Party will be required to eliminate overextractions by leasing water, buying from the Exchange Pool, reducing pumpage, or purchasing imported water.					

TABLE 2. ADJUDICATED RIGHT ACCOUNTING, 2002-2003 (acre-feet)

Party	Sales * 2002-03	Adjudicated Right 2002-03	Carryover from 2001-02	Leases *		Allowable Extraction	Amount Pumped	In-Lieu	Balance	Allowable Carryover into 2003-2004		
				With Flex	Without Flex					Drought	Normal	Total
A B C Nursery, Inc		24.10	-15.54	25.00		33.56	29.34		4.22		4.22	4.22
Allied-Signal, Inc (Torrance)		22.50	4.50			27.00	0.00		27.00		4.50	4.50
American Plant Growers, Inc		10.00	4.91	35.00		49.91	49.14		0.77		0.77	0.77
Asahi Fancy Koi, Inc		2.00	34.20			36.20	0.00		36.20	32.20	2.00	34.20
Atlantic Richfield Co		5,309.00	1,111.80			6,420.80	4,020.00		2,400.80		1,061.80	1,061.80
Automation Industries, Inc		0.70	5.40			6.10	0.00			3.40	2.00	5.40
Black, Dana		11.80	2.36			14.16	0.00		14.16		2.36	2.36
Brandsma, Maynard		11.80	0.00			11.80	0.00		11.80		2.36	2.36
CBS, Inc.		9.50	2.00			11.50	0.00		11.50		2.00	2.00
California Water Service Co		4,070.00	539.68	-525.00	-35.00	4,049.68	2,358.06	982.08	709.54		709.00	709.00
California Water Service Co (Dominguez)		10,417.45	2,136.21	-2,825.00	-1,138.00	8,590.66	6,890.54		1,700.12		1,518.49	1,518.49
California Water Service Co/Hawthorne Lease		0.00	131.40	1,007.00	15.00	1,153.40	398.85	551.04	203.51		201.40	201.40
Carson-Harbor Village Mobile Home Park		8.20	2.00			10.20	0.00		10.20		2.00	2.00
Carson-Madrona Co		104.00	20.80			124.80	0.00		124.80		20.80	20.80
Century Builders		4.70	2.00			6.70	0.00		6.70		2.00	2.00
Chandler Palos Verdes Sand & Gravel Co		294.20	43.25	-35.00		302.45	245.73		56.72		51.84	51.84
Chevron USA, Inc		4,601.30	2.00	-3,901.30		702.00	0.00		702.00		140.00	140.00
Churchill Downs California Co		282.00	0.00	-282.00		0.00	0.00		0.00		0.00	0.00
Coastline Church of Christ		0.70	5.40			6.10	0.00		6.10	3.40	2.00	5.40
Conocophillips Co.	6,170.00	6,170.00	2,021.78			8,191.78	5,493.16		2,698.62	787.78	1,234.00	2,021.78 a/
Curtis, Owen W		0.36	4.72			5.08	0.00		5.08	2.72	2.00	4.72
Delaney, Golda, Estate of		4.10	12.20			16.30	0.00		16.30	10.20	2.00	12.20
Desser Enterprises		0.00	2.42	12.10		14.52	4.20		10.32		2.42	2.42
El Segundo, City of		953.00	190.60			1,143.60	0.00		1,143.60		190.60	190.60
Engelsma, Susan Trust		12.10	0.00	-12.10		0.00	0.00		0.00		0.00	0.00
Equilon Enterprises, LLC	-3,432.00	0.00	0.00			0.00	0.00		0.00		0.00	0.00 b/
Evergreen American Corp		5.40	2.00			7.40	0.00		7.40		2.00	2.00
Fujimoto, Samuel R + Steven T + Jon K		20.00	16.28			36.28	48.31		-12.03		-12.03	-12.03
GATX Tank Storage Terminals Corp	-167.00	0.00	0.00			0.00	0.00		0.00		0.00	0.00 c/
Gillingham, Florence R, et al		2.40	2.00			4.40	0.00		4.40		2.00	2.00
Hawthorne, City of		1,882.00	0.00	-1,882.00		0.00	0.00		0.00		0.00	0.00
Hillside Memorial Park		68.70	-73.56			-4.86	140.51		-145.37		-145.37	-145.37
Honold, Kristin Brandsma		11.80	2.36			14.16	0.00		14.16		2.36	2.36
Hughes Aircraft Co		0.00	0.00			0.00	0.00		0.00		0.00	0.00
Inglewood, City of		4,449.89	990.55	492.60	1,007.51	6,940.55	4,892.06		2,048.49		988.50	988.50 d/
Inglewood Park Cemetery		0.00	2.00			2.00	0.00		2.00		2.00	2.00
Kinder Morgan Liquids Terminals, LLC	167.00	167.00	33.40			200.40	0.00		200.40		33.40	33.40 e/
Leuzinger, Emma L, Estate of		1.40	6.50			7.90	0.00		7.90	4.50	2.00	6.50
Lomita, City of Water System		1,352.00	2.00		-1,230.00	124.00	112.94		11.06		11.06	11.06
Long Beach, City of		0.70	2.00			2.70	0.00		2.70		2.00	2.00
Lopes, Frank		3.70	11.40			15.10	0.00		15.10	9.40	2.00	11.40
Los Angeles, City of		1,503.00	0.00			1,503.00	0.00	1,503.00	0.00		0.00	0.00
Los Angeles County Alondra Park		67.70	-0.23			67.47	63.90		3.57		13.82	13.82 e/
Los Angeles County Sanitation District 2		102.00	-21.34		150.00	230.66	226.64		4.02		4.02	4.02
Los Angeles County Chester Washington GC		296.00	-0.99			295.01	166.87		128.14		58.92	58.92 e/
Loyola Marymount University		48.10	9.62			57.72	0.00		57.72		9.62	9.62
Manhattan Beach, City of		1,131.20	66.11		1,230.00	2,427.31	1,004.88	1,303.20	119.23		119.23	119.23
Mayflower Nurseries		0.00	1.95			1.95	0.00		1.95		1.95	1.95
McDonnell Douglas Corp		1.70	2.00			3.70	0.00		3.70		2.00	2.00

TABLE 2. ADJUDICATED RIGHT ACCOUNTING, 2002-2003 (acre-feet)

Party	Sales * 2002-03	Adjudicated Right 2002-03	Carryover from 2001-02	Leases *		Allowable Extraction	Amount Pumped	In-Lieu	Balance	Allowable Carryover into 2003-2004		
				With Flex	Without Flex					Drought	Normal	Total
Mobil Oil Corp		2,596.40	549.71			3,146.11	799.16		2,346.95	30.43	519.28	549.71
Mori, Roy H and Kenji		3.60	11.20			14.80	0.00		14.80	9.20	2.00	11.20
Northrop Corp		38.15	7.63			45.78	0.00		45.78		7.63	7.63
Nozaki, Sumikichi		7.00	2.00			9.00	0.00		9.00		2.00	2.00
Pacific Crest Cemetery Co		39.40	-47.47			-8.07	47.96		-56.03		-56.03	-56.03
Palos Verdes Begonia Farm		0.00	7.40			7.40	0.00		7.40	7.40	0.00	7.40
Rehor, Josephine P		2.20	2.00			4.20	0.00		4.20		2.00	2.00
Rhodia, Inc		521.00	104.20			625.20	241.52		383.68		104.20	104.20
Rolling Hills Vista		0.00	2.00			2.00	0.00		2.00		2.00	2.00
Roman Catholic Archbishop of Los Angeles		72.30	1.91			74.21	198.89		-124.68		-124.68	-124.68
Shell Oil Co		1,019.50	203.98			1,223.48	0.00		1,223.48	0.08	203.90	203.98
Shell Oil Products US	3,432.00	3,432.00	828.50	1,657.00		5,917.50	4,993.08		924.42		924.42	924.42 <u>b/</u>
Southern California Edison Co		57.10	6.65			63.75	23.05		40.70	6.22	11.42	17.64
Southern California Water Co		7,259.64	2,504.42	6,476.30		16,240.36	13,622.22		2,618.14		2,618.14	2,618.14
Thorpe, Terrence		11.80	0.00			11.80	0.00		11.80		2.36	2.36
Torrance, City of		5,638.86	997.77			6,636.63	879.14		5,757.49		1,127.77	1,127.77
Tosco Corp	-6,170.00	0.00	0.00			0.00	0.00		0.00	0.00	0.00	0.00 <u>a/</u>
Watson Land Co		80.20	16.04			96.24	0.00		96.24		16.04	16.04
Watt Industrial Properties		0.10	3.00			3.10	0.00		3.10	1.00	2.00	3.00
Western Water Service Co		242.60	5.39	-242.60	0.49	5.88	0.00		5.88	3.39	2.00	5.39 <u>d/</u>
Wiseburn School District		8.20	2.00			10.20	0.00		10.20		2.00	2.00
Zeigler, Maxwell T		0.00	2.00			2.00	0.00		2.00		2.00	2.00
West Coast Basin Total	0.00	64,468.25	12,528.47	0.00	0.00	76,996.72	46,950.15	4,339.32	25,707.25	911.32	11,079.99	11,991.31

* See Table 14 and Appendix B for information concerning leases, transfer of water right entitlements or prior ownership. Includes lease with flex where applicable.

a/ Transfer through Merger: Tosco Corp to Conocophillis Co. (Tosco pumped 2,564.22 acre-feet)

b/ Sold: Equillon Enterprises, LLC to Shell Oil Products US

c/ Sold: GATX Tank Storage Terminals Corp. to Kinder Morgan Liquids Terminals, LLC

d/ Sold: Sales agreement between Western Water Service Co. and City of Inglewood.

e/ Los Angeles County accounts are combined when calculating carryover credit

Non-parties												
Carson Auto, Inc							0.00					
Exempt												
Atlantic Richfield Co (Oil Recovery)							0.00					
California Water Service Co (Brewer Desalter) for WBMWD							906.89					
Mobil Oil Corp (Oil Recovery)							1,129.45					
Water Replenishment District (Goldsworthy Desalter)							2,451.46					
Total Pumped from Basin							51,437.95					

TABLE 3. FY 2002-2003 INCOME AND EXPENDITURES

Item	Parties	State	Total
<u>Income</u>			
From 2002-2003 billing	\$83,580	\$101,500	\$185,080
Balance from 2001-2002	11,109	---	11,109
From budget penalties	105	---	105
Total income	<u>\$94,794</u>	<u>\$101,500</u>	<u>\$196,294</u>
<u>Expenditures</u>			
Salaries and wages	\$100,485	\$100,485	\$200,970
Operating expenses			
Miscellaneous Office Supplies	\$178	\$178	356
Travel and			
Private Car Mileage	\$191	\$192	383
Total Expenditures	<u>\$100,854</u>	<u>\$100,855</u>	<u>\$201,709</u>
Balance	-\$6,060 *		
* Carryover or deficit to parties in 2003-2004 fiscal year, subject to delayed charges or credits.			

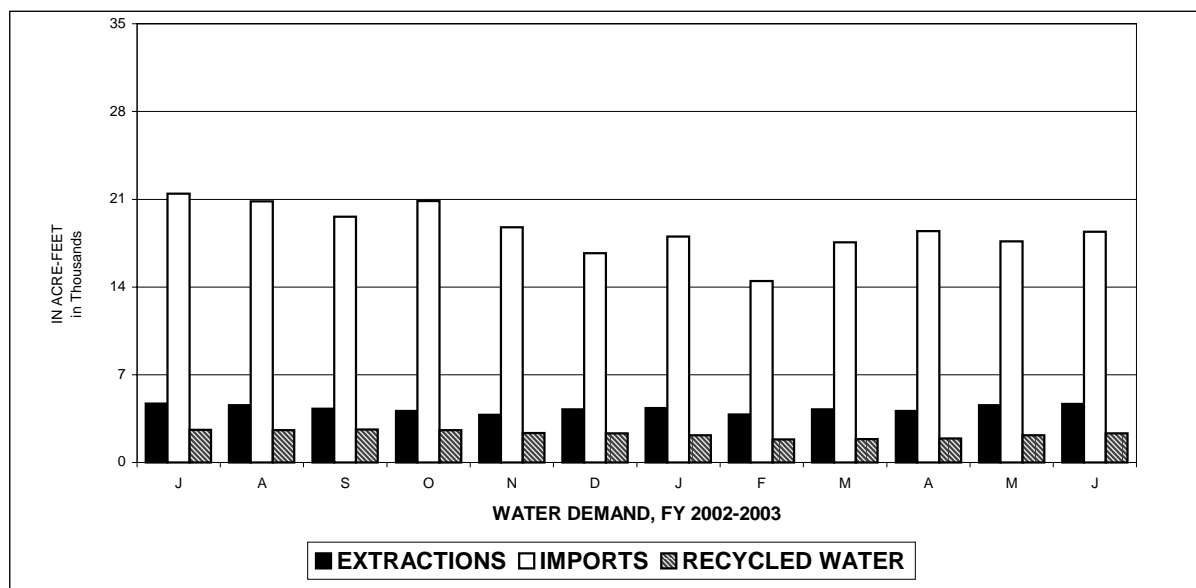
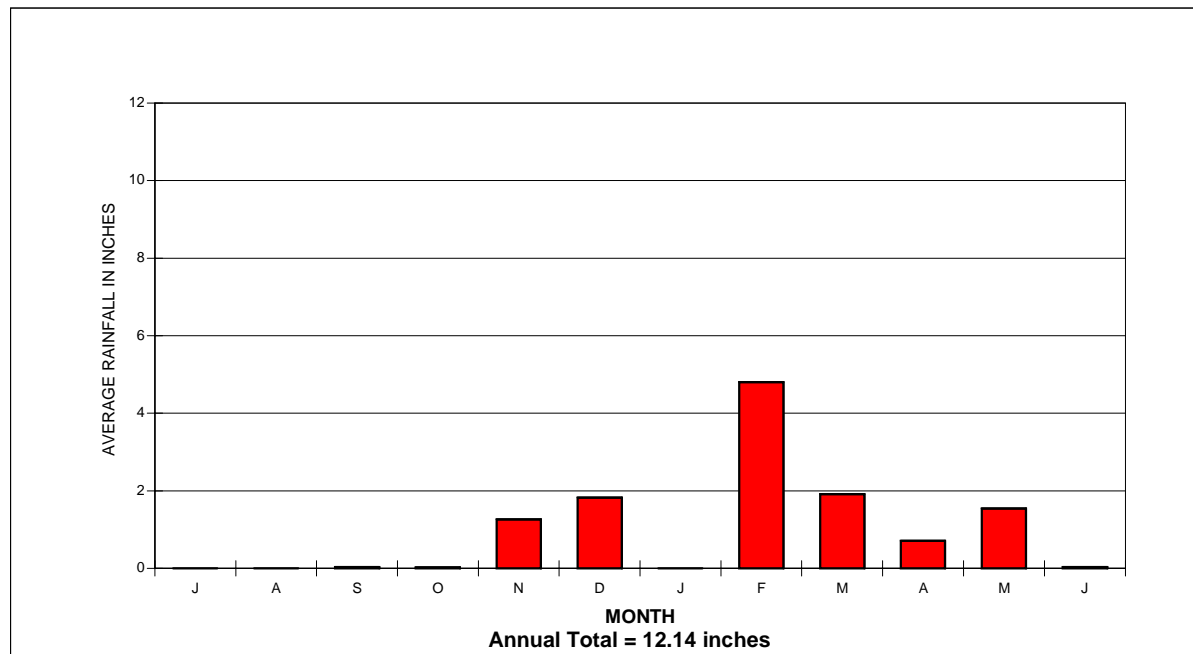


Figure 2 - MONTHLY BASIN RAINFALL AND WATER DEMAND

III. DETAILS OF WATER USE AND OPERATIONS

Basin operations are reported in the following tables and figures.

Operations

Table 4 - Replenishment Operations (p. 13)

Table 5 - Barrier Operations (p. 13)

Precipitation

Figure 3 - Precipitation Stations and Barrier Projects (p. 14)

Exchange Pool

Table 6 - Exchange Pool Offers (p. 15)

Table 7 - Exchange Pool Requests (p. 15)

Water Use

Table 8 - Extractions by Nonparties and Parties with Zero Adjudicated Rights (p. 16)

Figure 4 - Pattern of Groundwater Production for July 2002 to June 2003 (p. 17)

Table 9 - Water Replenishment District In-lieu Program (p. 16)

Table 10 - Imported Water and Recycled Water (p. 18)

Table 11 - Gross Water Use (p. 19)

Groundwater

- Figure 5 - Lines of Equal Water Level Elevation at Wells in the Silverado Aquifer, Fall 2002 (p. 20)
- Figure 6 - Lines of Equal Water Level Elevation at Wells in the Silverado Aquifer, Spring 2003 (p. 21)
- Figure 7 - Areas of Change in Water Level in the Silverado Aquifer, Spring 2002 to Spring 2003 (p. 22)
- Figure 8 - Fluctuations of Water Level Elevations at Wells in Upper Pleistocene and Recent Aquifers (p. 27)
- Figure 9 - Fluctuations of Water Level Elevations at Wells in the Silverado Aquifer (p. 28)
- Figure 10 - Fluctuations of Water Level Elevations at Wells in the Merged Phases of Silverado and Lynwood Aquifers (p. 29)
- Figure 11 - Chloride Levels Silverado Aquifer, Fall 2002 (p. 30)
- Plate 3 - Locations of Wells (bound at back of report)

Costs

- Table 12 - Approved Budget (p. 23)
- Table 13 - Apportionment of Parties' Share of Budget (p. 24)

Water Rights

- Table 14 - Transfers of Adjudicated Rights (p. 25)

Meter Testing Program

This year, 25 meter tests were performed, including several retests. Two meters were 62.9 and 21.7 percent fast, three meters were 15.7, 12.6, and 60.7 percent slow. Watermaster scheduled all meters to be tested every two years.

Due to the current State hiring freeze, Watermaster will be reducing the meter testing program temporarily. In the future Watermaster will be scheduling meter tests when parties request one, and all meters should be tested every three to four years.

TABLE 4. REPENISHMENT OPERATIONS *

In acre-feet

Water Source	Quantity	
	2001-2002	2002-2003
Local runoff	12,229	64,390
Recycled water:		
Whittier Narrows WRP	9,017	7,436
San Jose WRP	47,013	50,006
Pomona WRP	2,272	2,285
MWD water purchased with WRD funds	41,268	17,297
Make-up water from Upper San Gabriel Basin	0	0
Total	111,799	141,414
<p>* Water spread in the Central Basin provides subsurface recharge to West Coast Basin. Provisional data provided by Los Angeles County Department of Public Works, as to amount actually spread in Montebello Forebay area.</p>		

TABLE 5. BARRIER OPERATIONS

Item	West Coast Basin Barrier	Dominguez Gap Barrier
Quantity injected, in acre-feet		
Imported	9,091	7,469
Recycled	7,841	---
Number of injection wells	153	61
Number of observation wells	296	221
Number of observation wells constructed during 2001-2003 fiscal years	0	12
Number of injection wells constructed during 2001-2003 fiscal years	0	33
Information provided by the Los Angeles County Department of Public Works.		

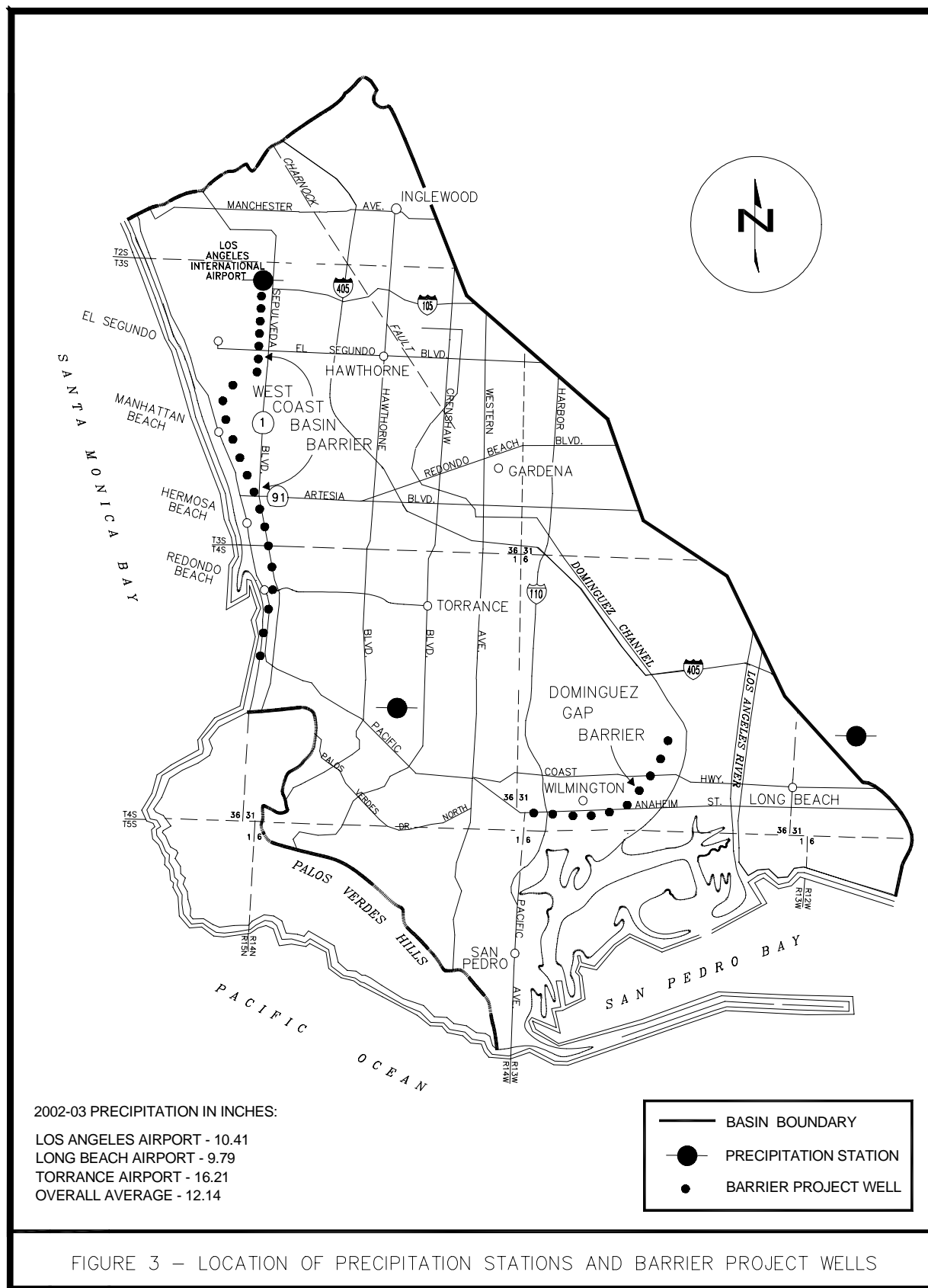


FIGURE 3 – LOCATION OF PRECIPITATION STATIONS AND BARRIER PROJECT WELLS

TABLE 6. EXCHANGE POOL OFFERS 2002-03

Party	Amount in acre-feet		Price per acre-foot	Charge for Exchange Water
	Offered	Released		
<u>Mandatory Offers</u>				
Atlantic Richfield Co	*			
California Water Service Co	0	0		
California Water Service Co (Dominguez)	0	0		
CA Wtr Service Co/Hawthorne Lease	0	0		
Chevron USA, Inc.	0	0		
Churchill Downs California Co	282	0	\$120	
El Segundo, City of	0	0		
Equilon Enterprises, LLC	532	0	\$500	
Inglewood, City of	*			
Lomita, City of Water System	0	0		
Long Beach, City of	0	0		
Los Angeles, City of	0	0		
Los Angeles County Alondra Park	0	0		
Los Angeles County Chester Washington Golf Course	96	0	None	
Los Angeles County Sanitation District 2	0	0		
Manhattan Beach, City of	0	0		
Mobil Oil Corp	*			
Rhodia, Inc	1	0	None	
Shell Oil Co	*			
Southern California Water Co	0	0		
Torrance, City of	*			
Tosco Corp	1,420	0	\$1,150	
Total	2,331	0		\$0.00
<u>Voluntary Offers</u>				
CA Wtr Service Co./Hawthorne Lease	1,250	0	\$500	
Long Beach, City of	2	0	\$250	
Southern California Water Co	1,451	0	\$528	
Watson Land Co	95	0	\$510	
Wiseburn School District	10	0	\$100	
Total	2,808	0		\$0.00
* Exchange Pool forms not received by Watermaster				

TABLE 7. EXCHANGE POOL REQUESTS

Party	Amount of Water Received, in acre-feet	Cost of Exchange Water
None		

TABLE 8. EXTRACTIONS BY NONPARTIES AND PARTIES
WITH ZERO ADJUDICATED RIGHTS

Pumper	State Well Number	Amount Pumped in acre-feet
<u>Nonparties</u>		
Carson Auto, Inc	04S/13W-15K05S	0.00
Total		0.00
<u>Parties with Zero Adjudicated Rights</u>		
Desser Enterprises	04S/13W-15Q01S	4.20 *
Hughes Aircraft Co	04S/14W-22L02S	0.00
Inglewood Park Cemetery	04S/14W-27M01S	0.00
Inglewood Park Cemetery	04S/14W-27N02S	0.00
Inglewood Park Cemetery	04S/14W-27N03S	0.00
Mayflower Nurseries	04S/14W-25K06S	0.00
Palos Verdes Begonia Farm	04S/14W-21N01S	0.00
Rolling Hills Vista	04S/14W-28J01S	0.00
Zeigler, Maxwell T	04S/13W-31M01S	0.00
Total		4.20
* Party leased rights sufficient to cover extractions.		

TABLE 9. WATER REPLENISHMENT DISTRICT IN-LIEU PROGRAM
In acre-feet

Party	In-lieu Amount Reserved
California Water Service Co	982.08
California Water Service Co (Hawthorne Lease)	551.04
Los Angeles, City of	1,503.00
Manhattan Beach, City of	1,303.20
Total	4,339.32

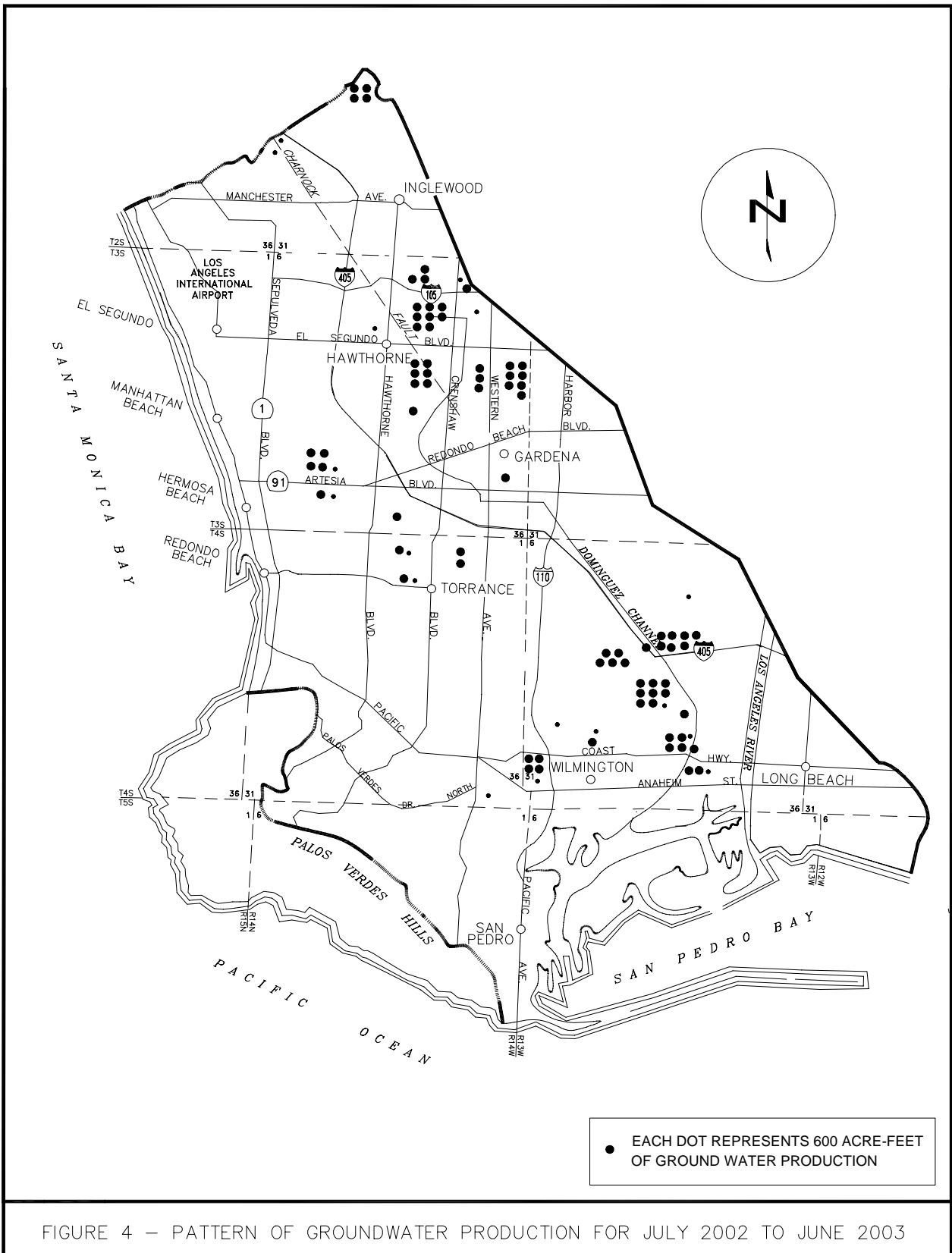


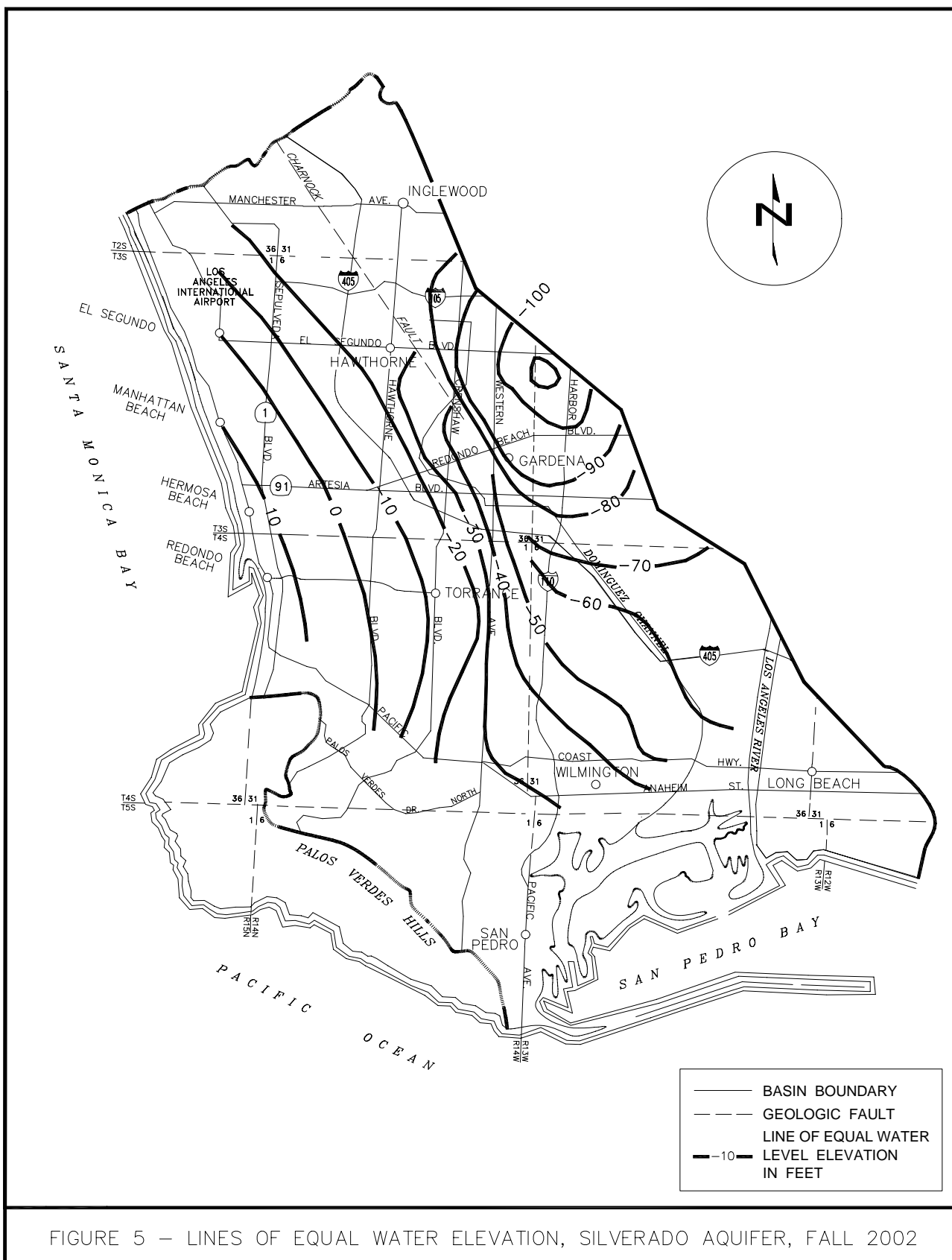
TABLE 10. IMPORTED WATER AND RECYCLED WATER *
In acre-feet

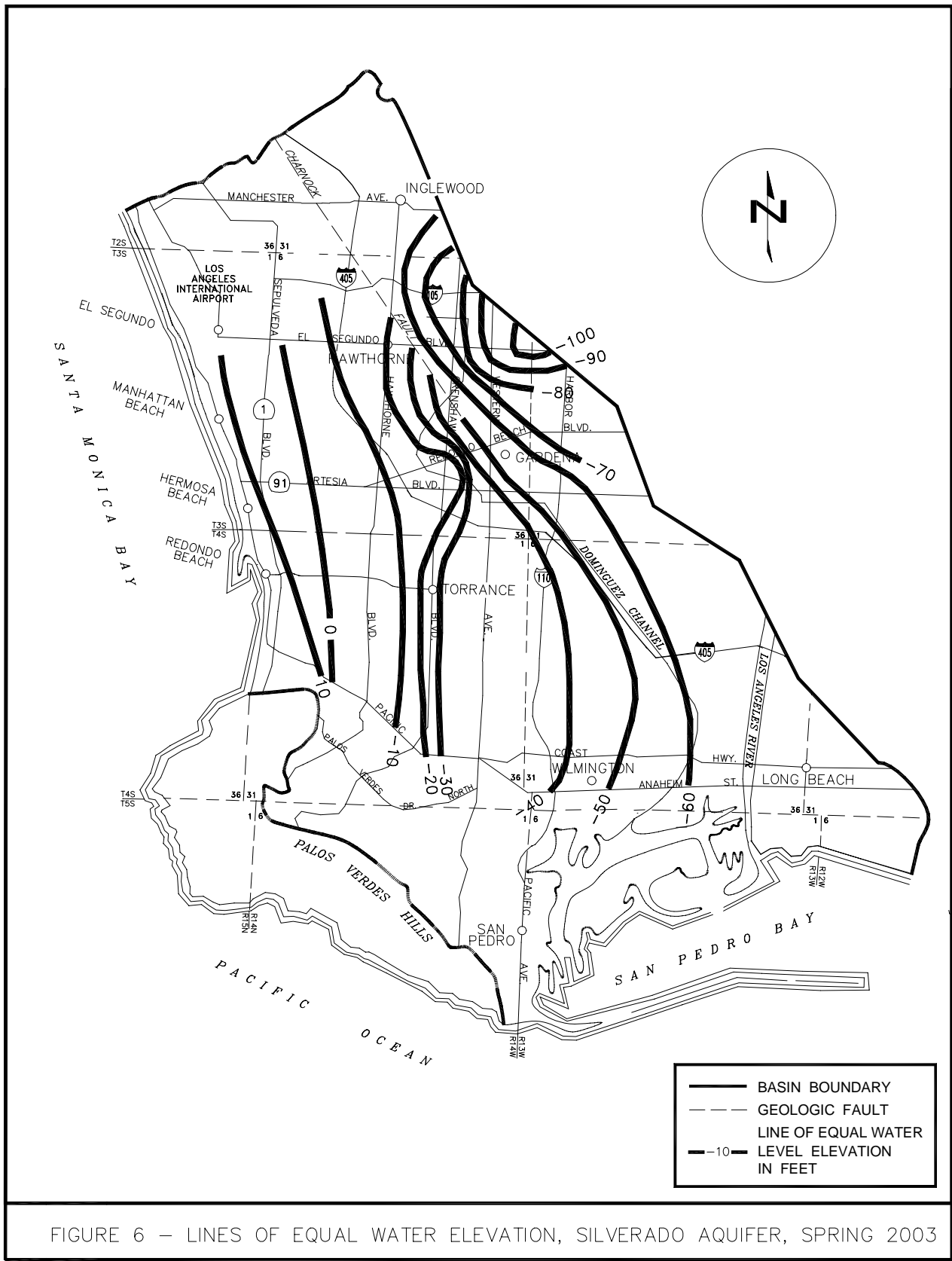
Source of water	Water Purveyor	Quantity	
		2001-2002	2002-2003
<u>Imported Water</u>			
Colorado River, State Water Project Water and Central Basin groundwater	Long Beach, City of	45,037	40,789
Colorado River and State Water Project water	West Basin Municipal Water District:		
	California Water Service Company (Hermosa/Redondo)***	14,432	14,022
	California Water Service Company (Dominguez)	24,942	25,190
	El Segundo, City of	9,331	8,543
	Hawthorne, City of (California Water Lease)	4,473	4,429
	Inglewood, City of	5,578	6,735
	Lomita, City of	2,752	2,734
	Los Angeles County Department of Public Works **	18,124	17,877
	Los Angeles County Waterworks District No. 29****	0	0
	Manhattan Beach, City of	5,582	5,748
	Southern California Water Company	26,828	25,485
	West Basin MWD Subtotal	112,042	110,763
Colorado River and State Water Project water	Torrance, City of	22,817	20,981
Owens River-Mono Basin, Colorado River and State Water Project water	Los Angeles, City of	38,959	38,334
	Total Imported Water	218,855	210,867
<u>Recycled Water</u>			
	West Basin Municipal Water District:		
	California Water Service	130	131
	California Water Service (Hawthorne Lease)	102	101
	California Water Service Company (Dominguez)	3,165	3,092
	El Segundo, City of	7,632	8,102
	Inglewood, City of	707	577
	Inglewood Unified School District	31	30
	Los Angeles Department of Water and Power	342	277
	Manhattan Beach, City of	307	254
	Southern California Water Company	281	307
	Torrance, City of	7,320	7,455
	Water Replenishment District **	7,290	6,754
	Total Recycled Water	27,307	27,080
* Does not include nonparty imports			
** West Coast Basin and Dominguez Gap Barrier Projects			
*** Palos Verdes is not in Watermaster Service Area, imported 21,052 AF is excluded.			
**** Not in Watermaster Service area. 2001-2002 Imported 9,720 AF is excluded.			

TABLE 11. GROSS WATER USE
In acre-feet

Party	Total Groundwater Extractions	Purchased Supply		Recycled Water	Total Water Use
		Imported*	Within Basin**		
A B C Nursery, Inc.	29.34				29.34
Allied-Signal, Inc (Torrance)	0.00				0.00
American Plant Growers, Inc.	49.14				49.14
Asahi Fancy Koi, Inc.	0.00				0.00
Atlantic Richfield Company	4,020.00		9,444.20		13,464.20
Black, Dana	0.00				0.00
Brandsma, Maynard	0.00				0.00
CBS, Inc.	0.00				0.00
California-American Water Co. (nonparty)	0.00	1,978.62			1,978.62
California Water Service Company(Excludes Palos Verdes imports.)	2,358.06	14,022.20		130.38	16,510.64
California Water Service (Hawthorne Lease)	398.85	4,428.60		100.60	4,928.05
California Water Service Company (Dominguez)	6,890.54	25,190.40		3,092.30	35,173.24
Carson-Harbor Village Mobile Home Park	0.00				0.00
Carson-Madrona Company	0.00				0.00
Century Builders	0.00				0.00
Chandler Palos Verdes Sand/Gravel	245.73				245.73
Chevron U S A, Inc.	0.00				0.00
Coastline Church of Christ	0.00				0.00
Conocophillips Company	2,928.94		2,234.81		5,163.75
Curtis, Owen W.	0.00				0.00
Delaney, Golda, Estate of	0.00				0.00
Desser Enterprises	4.20				4.20
El Segundo, City of	0.00	8,542.90	1,434.35	8,102.20	18,079.45
Englesma, Susan Trust	0.00				0.00
Evergreen American Corporation	0.00				0.00
Fujimoto, SR, ST, JK	48.31				48.31
Gillingham, Florence R. et al	0.00				0.00
Hillside Memorial Park	140.51		50.00 E		190.51
Honold, Kristin Brandsma	0.00				0.00
Hughes Aircraft Company	0.00				0.00
Inglewood, City of	4,892.06	6,734.50		577.40	12,203.96
Inglewood Park Cemetery	0.00				0.00
Kinder Morgan Liquids Terminals, LLC	0.00				0.00
Leuzinger, Emma L., Estate of	0.00				0.00
Lomita, City of Water System	112.94	2,734.10			2,847.04
Long Beach, City of	0.00	40,788.60			40,788.60
Lopes, Frank	0.00				0.00
Los Angeles, City of Department of Water and Power	0.00	38,334.00		277.30	38,611.30
Los Angeles County Alondra Park	63.90				63.90
Los Angeles County Chester Washington Golf	166.87				166.87
Los Angeles County Sanitation Dist 2	226.64		532.78		759.42
Los Angeles County Waterworks Dist 29	0.00	10,055.50			10,055.50
Loyola Marymount University	0.00				0.00
Manhattan Beach, City of	1,004.88	5,748.40		254.10	7,007.38
Mayflower Nurseries	0.00				0.00
McDonnell Douglas Corporation	0.00				0.00
Mobil Oil Corporation	799.16				799.16
Mori, Roy H and Kenji	0.00				0.00
Northrop Corporation	0.00				0.00
Nozaki, Sumikichi	0.00				0.00
Pacific Crest Cemetery Company	47.96				47.96
Palos Verdes Begonia Farm	0.00				0.00
Rehor, Josephine P	0.00				0.00
Rhodia, Inc.	241.52		429.75		671.27
Rolling Hills Vista	0.00				0.00
Roman Catholic Archbishop of LA	198.89				198.89
Shell Products, USA	4,993.08		1,434.35		6,427.43
Signal Hill, City of (nonparty)	0.00				0.00
Southern California Edison Co.	23.05				23.05
Southern California Water Co.	13,622.22	25,485.00		307.10	39,414.32
Thorpe, Terrence	0.00				0.00
Torrance, City of	879.14	20,980.50		7,454.80	29,314.44
Torrance, City of (Mobil)	0.00				0.00
Tosco Corporation	2,564.22		2,355.05		4,919.27
Watson Land Company	0.00		50.00 E		50.00
Watt Industrial Properties	0.00				0.00
Western Water Service Company	0.00				0.00
Wiseburn School District	0.00				0.00
Zeigler, Maxwell T.	0.00				0.00
	46,950.15	205,023.32	17,965.29	20,296.18	290,234.94

* Import from MWD or member agency.
** Purchased from municipal, mutual, or public utility water agency.
E Estimated value





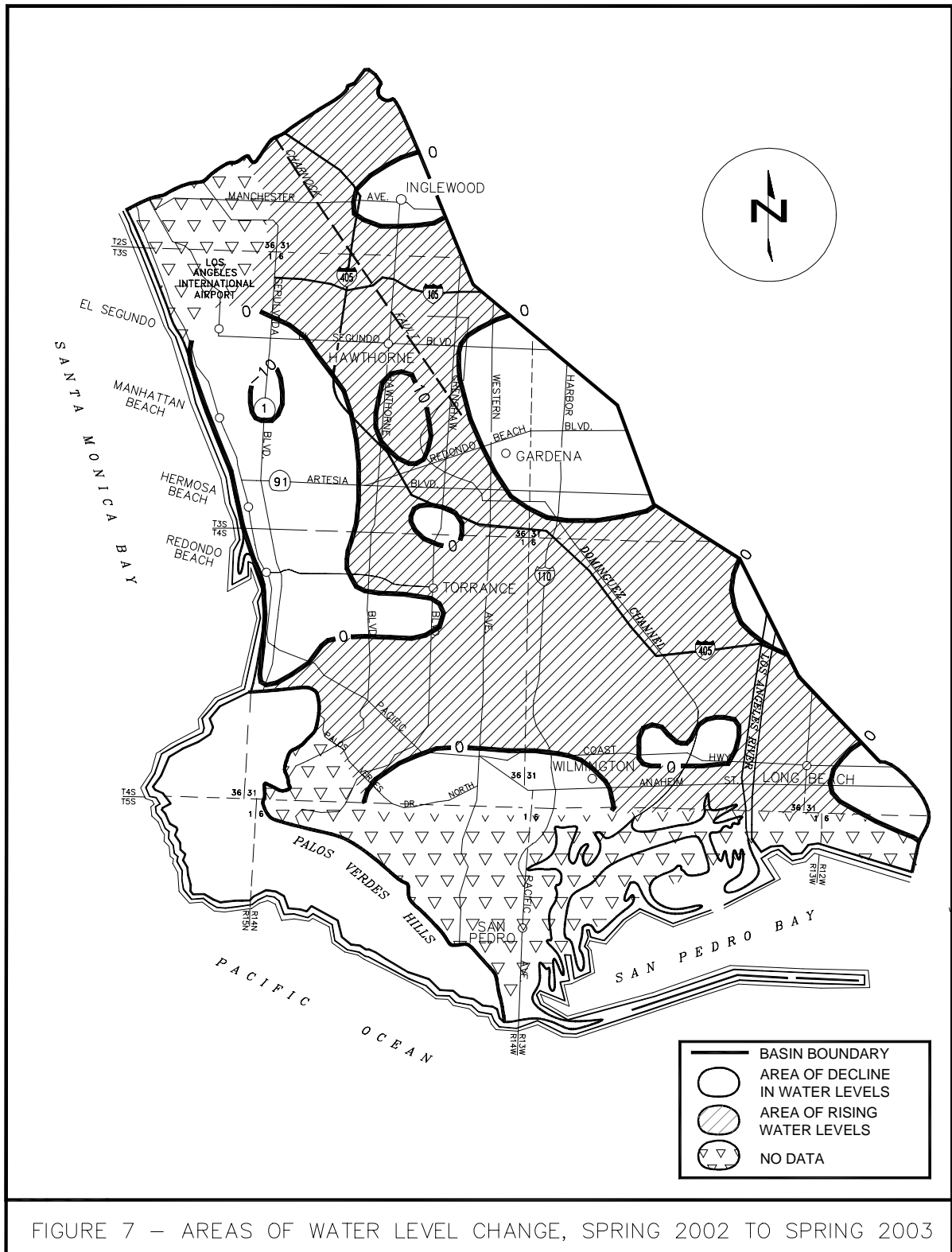


TABLE 12. APPROVED BUDGET

Total budget	\$203,000.00	
One-half payable by State	\$101,500.00	
One-half payable by parties		\$101,500.00
Estimated carryover from previous year (+) deficit, (-) credit		-17,920.00
Total amount to be billed		\$ 83,580.00

TABLE 13. APPORTIONMENT OF PARTIES' SHARE OF BUDGET

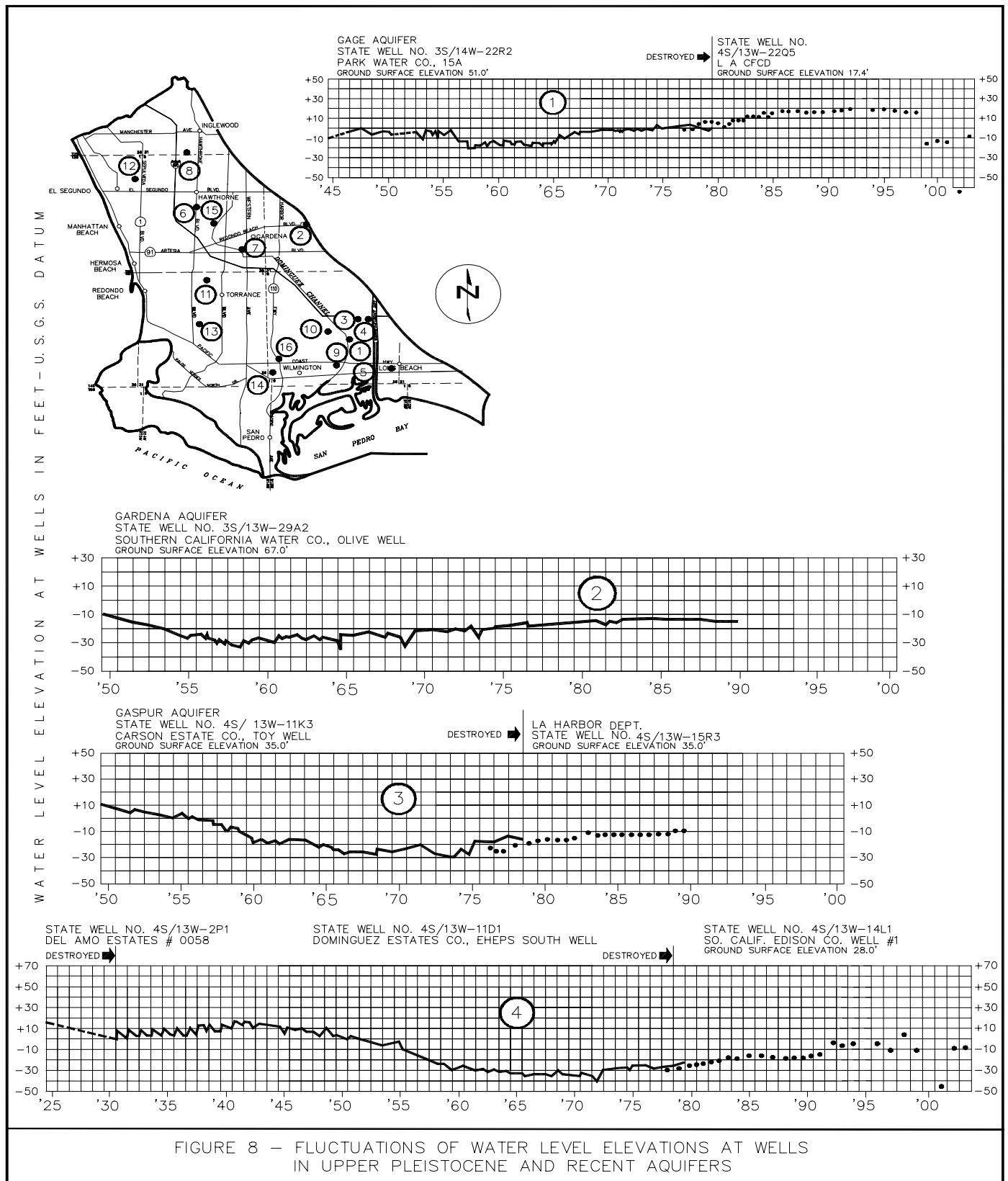
Party Name	Adjudicated Right (in acre-feet)	Apportionment Paid
A B C NURSERY, INC	24.10	\$ 31.42
AMERICAN PLANT GROWERS	10.00	13.04
ATLANTIC RICHFIELD COMPANY	5,309.00	6,920.72
LOCHRIDGE, DANA	11.80	15.38
BRANDSMA, MAYNARD	11.80	15.38
CA. WATER SERVICE CO. (DOMINGUEZ)	10,417.45	13,580.00
CALIFORNIA WATER SERVICE COMPANY	4,070.00	5,305.58
CHANDLER PALOS VERDES SAN/GRAV CO	294.20	383.51
CHEVRON USA INC	4,601.30	5,998.17
CHURCHILL DOWNS CALIFORNIA COMPANY	282.00	367.61
EL SEGUNDO, CITY OF	953.00	1,242.31
ENGELSMA. SUSAN TRUST	12.10	15.77
EQUILON ENTERPRISES, LLC	3,432.00	4,473.89
FUJIMOTO, S.R. & S.T. & J.K.	20.00	26.07
KINDER MORGAN LIQUID TERMINALS, LLC	167.00	217.70
CALIFORNIA WATER SERVICE CO./HAWTHORNE, CITY OF	1,882.00	2,453.34
HILLSIDE MEMORIAL PARK	68.70	89.56
HONOLD, KRISTIN BRANDSMA	11.80	16.15 *
INGLEWOOD, CITY OF	4,449.89	5,800.80
LOS ANGELES, CITY OF	1,503.00	1,959.28
LOS ANGELES COUNTY ALONDRA PARK	67.70	88.25
LOS ANGELES COUNTY SANITN DIST 2	102.00	132.97
LOMITA, CITY OF WATER SYSTEM	1,352.00	1,850.56 *
LA COUNTY, CHESTER WASHINGTON GOLF	296.00	385.86
MANHATTAN BEACH, CITY OF	1,131.20	1,474.61
MOBIL OIL CORPORATION	2,596.40	3,384.62
SUMIKICHI NOZAKI	7.00	9.13 *
PACIFIC CREST CEMETERY COMPANY	39.40	51.36
RHODIA INCORPORATED	521.00	679.17
ROMAN CATHOLIC ARCHBISHOP OF L A	72.30	94.25
SHELL OIL COMPANY	1,019.50	1,329.00
SOUTHERN CALIFORNIA EDISON CO	57.10	74.43
SOUTHERN CALIFORNIA WATER COMPANY	7,259.64	9,463.54
THORPE, TERENCE	11.80	15.38
TORRANCE, CITY OF	5,638.86	7,350.72
TOSCO CORPORATION	6,170.00	8,043.10
WESTERN WATER SERVICE COMPANY	242.60	332.06
TOTALS	64,115.64	\$ 83,684.69
* Parties are not billed for amounts less than \$3 or if their accounts are inactive for three or more years. ** A total of \$104.70 was collected in late payments. Inactive parties are exempt from Watermaster Service costs.		

TABLE 14. TRANSFERS OF ADJUDICATED RIGHTS

Party	Transaction *	Amount in acre-feet	Date	Party
A B C NURSERY, INC	LEASE WITH FLEX	25.00	11/04/02	FROM CHURCHILL DOWNS CALIFORNIA CO
AMERICAN PLANT GROWERS, INC	LEASE WITH FLEX	35.00	06/01/03	FROM CHANDLER PALOS VRDES SAND/GRAV CO
CALIFORNIA WATER SERVICE CO	LEASE	-150.00	07/17/02	TO LOS ANGELES COUNTY SANITN DIST 2
	LEASE WITH FLEX	-525.00	06/18/03	TO SHELL OIL PRODUCTS US
	LEASE	115.00	06/30/03	FROM CA WATER SERVICE CO (DOMINGUEZ)
CA WATER SERVICE CO (DOMINGUEZ)	LEASE	-1,008.00	07/03/02	TO WESTERN WATER SERVICE CO <u>a/</u>
	LEASE WITH FLEX	-2,825.00	06/26/03	TO SOUTHERN CALIFORNIA WATER CO
	LEASE	-115.00	06/30/03	TO CALIFORNIA WATER SERVICE CO
	LEASE	-15.00	06/30/03	TO CA WTR SERVICE CO/HAWTHORNE LEASE
CA WTR SERVICE CO/HAWTHORNE LEASE	LEASE WITH FLEX	1,882.00	07/02/02	FROM HAWTHORNE, CITY OF <u>b/</u>
	LEASE WITH FLEX	-875.00	06/16/03	TO SHELL OIL PRODUCTS US
	LEASE	15.00	06/30/03	FROM CA WATER SERVICE CO (DOMINGUEZ)
CHANDLER PALOS VRDES SAND/GRAV CO	LEASE WITH FLEX	-35.00	06/01/03	TO AMERICAN PLANT GROWERS, INC
CHEVRON U S A, INC	LEASE WITH FLEX	-3,651.30	07/02/02	TO SOUTHERN CALIFORNIA WATER CO <u>c/</u>
	LEASE WITH FLEX	-250.00	07/02/02	TO WESTERN WATER SERVICE CO <u>d/</u>
CHURCHILL DOWNS CALIFORNIA CO	LEASE WITH FLEX	-25.00	11/04/02	TO A B C NURSERY, INC
	LEASE WITH FLEX	-257.00	05/05/03	TO SHELL OIL PRODUCTS US
CONOCOPHILLIPS COMPANY	PURCHASED	6,170.00	01/01/03	FROM TOSCO CORP
DESSER ENTERPRISES	LEASE WITH FLEX	12.10	07/02/02	FROM SUSAN ENGELSMA TRUST <u>e/</u>
SUSAN ENGELSMA TRUST	LEASE WITH FLEX	-12.10	07/02/02	TO DESSER ENTERPRISES <u>e/</u>
EQUILON ENTERPRISES, LLC	SOLD	-3,432.00	07/02/02	TO SHELL OIL PRODUCTS US
GATX TANK STORAGE TERMINALS CORP	SOLD	-167.00	08/27/02	TO KINDER MORGAN LIQUIDS TERMNLS,LLC
HAWTHORNE, CITY OF	LEASE WITH FLEX	-1,882.00	07/02/02	TO CA WTR SERVICE CO/HAWTHORNE LEASE <u>b/</u>
INGLEWOOD, CITY OF	LEASE WITH FLEX	-4,449.89	07/04/02	TO WESTERN WATER SERVICE CO <u>f/</u>
	LEASE WITH FLEX	4,942.49	07/05/02	FROM WESTERN WATER SERVICE CO <u>g/</u>
	LEASE	1,007.51	07/06/02	FROM WESTERN WATER SERVICE CO <u>h/</u>
KINDER MORGAN LIQUIDS TERMNLS,LLC	PURCHASED	167.00	08/27/02	FROM GATX TANK STORAGE TERMINALS CORP
LOS ANGELES COUNTY SANITN DIST 2	LEASE	150.00	07/17/02	FROM CALIFORNIA WATER SERVICE CO
LOMITA,CITY OF WATER SYSTEM	LEASE	-1,230.00	03/10/03	TO MANHATTAN BEACH, CITY OF
MANHATTAN BEACH, CITY OF	LEASE	1,230.00	03/10/03	FROM LOMITA,CITY OF WATER SYSTEM
SHELL OIL PRODUCTS US	PURCHASED	3,432.00	07/02/02	FROM EQUILON ENTERPRISES, LLC
	LEASE WITH FLEX	257.00	05/05/03	FROM CHURCHILL DOWNS CALIFORNIA CO
	LEASE WITH FLEX	875.00	06/16/03	FROM CA WTR SERVICE CO/HAWTHORNE LEASE
	LEASE WITH FLEX	525.00	06/18/03	FROM CALIFORNIA WATER SERVICE CO

TABLE 14. TRANSFERS OF ADJUDICATED RIGHTS

Party	Transaction *	Amount In acre-feet	Date	Party	
SOUTHERN CALIFORNIA WATER CO	LEASE WITH FLEX	3,651.30	07/02/02	FROM CHEVRON U S A, INC	<u>c/</u>
	LEASE WITH FLEX	2,825.00	06/26/03	FROM CA WATER SERVICE CO (DOMINGUEZ)	
TOSCO CORP	SOLD	-6,170.00	01/01/03	TO CONOCOPHILLIPS COMPANY	
WESTERN WATER SERVICE CO	LEASE WITH FLEX	250.00	07/02/02	FROM CHEVRON U S A, INC	<u>d/</u>
	LEASE	1,008.00	07/03/02	FROM CA WATER SERVICE CO (DOMINGUEZ)	<u>a/</u>
	LEASE WITH FLEX	4,449.89	07/04/02	FROM INGLEWOOD, CITY OF	<u>f/</u>
	LEASE WITH FLEX	-4,942.49	07/05/02	TO INGLEWOOD, CITY OF	<u>g/</u>
	LEASE	-1,007.51	07/06/02	TO INGLEWOOD, CITY OF	<u>h/</u>
Total		0.00			
<p>* Lease with flex: carryover provisions included with lease.</p> <p>a/ Long-term lease, 1998-2003 (1,008.00 acre-feet) between Dominguez Water Corp (original licensee) and Western Water Service Co (licensor). Dominguez Water Corp became known as Dominguez Water Co then later merged with and into California Water Service Co with "Dominguez" kept as a separate account known as California Water Service Co (Dominguez).</p> <p>b/ Long-term lease, 1995-2010 (1,882.00 acre-feet)</p> <p>c/ Long-term lease, 1998-2013 (3,651.30 acre-feet)</p> <p>d/ Long-term lease, 1998-2013 (250.00 acre-feet)</p> <p>e/ Long-term lease, 1995-2005 (12.10 acre-feet)</p> <p>f/ Long-term lease, 1999-2003 (4,449.89 acre-feet)</p> <p>g/ Long-term lease, 1999-2003 (4,942.49 acre-feet)</p> <p>h/ Long-term lease, 1999-2003 (1,007.51 acre-feet)</p>					



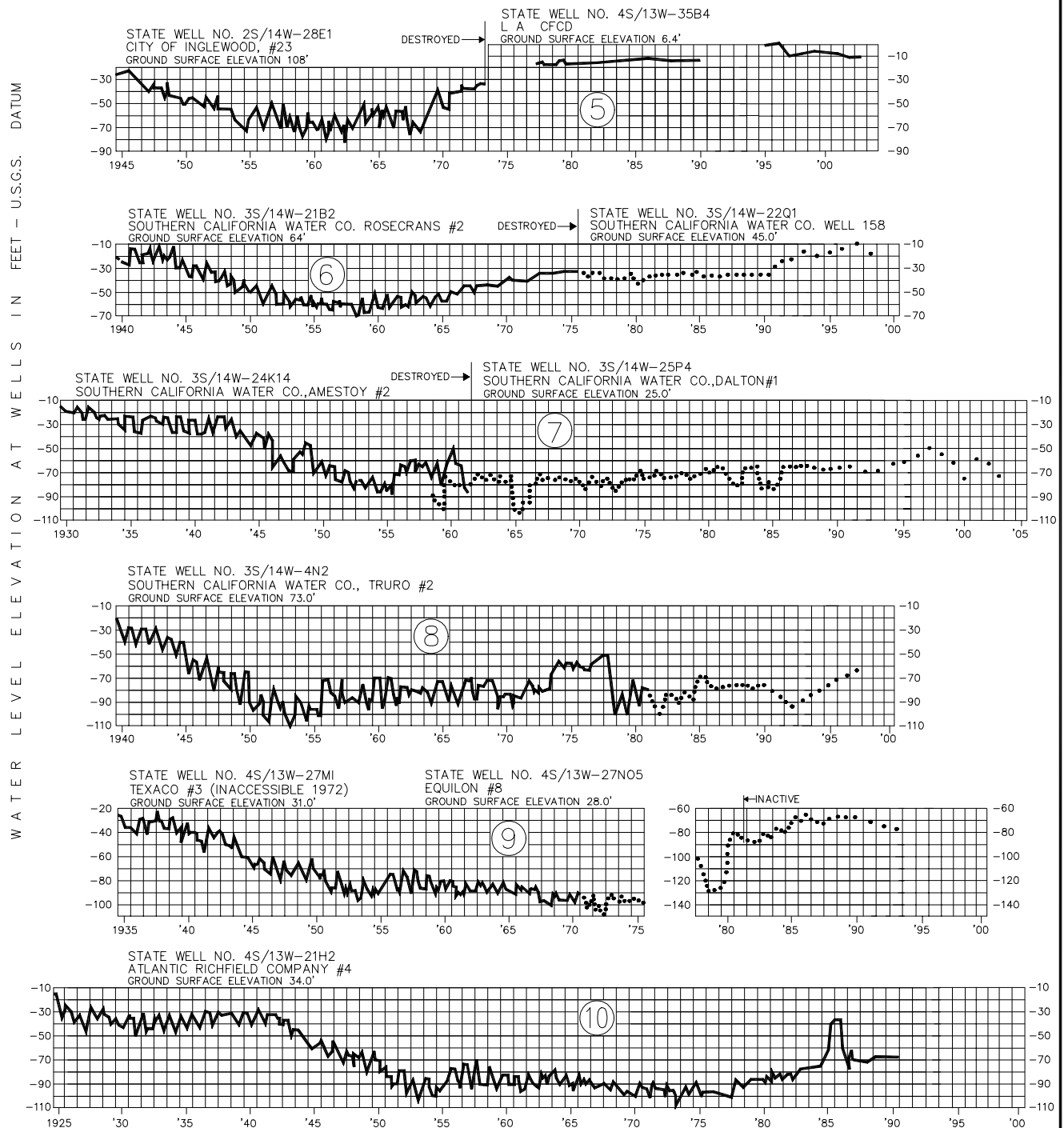
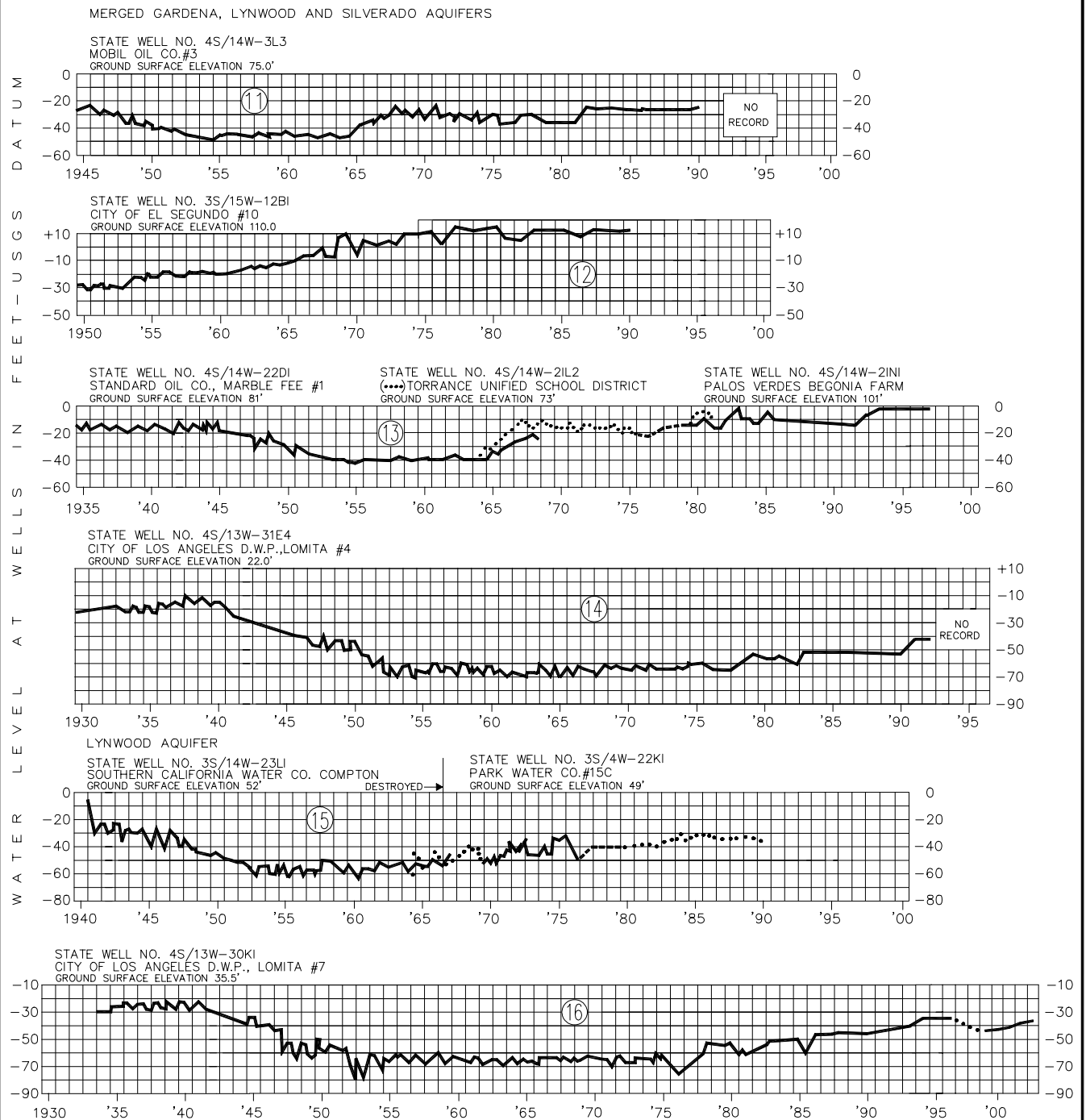


FIGURE 9 - FLUCTUATIONS OF WATER LEVEL ELEVATIONS AT WELLS IN THE SILVERADO AQUIFER



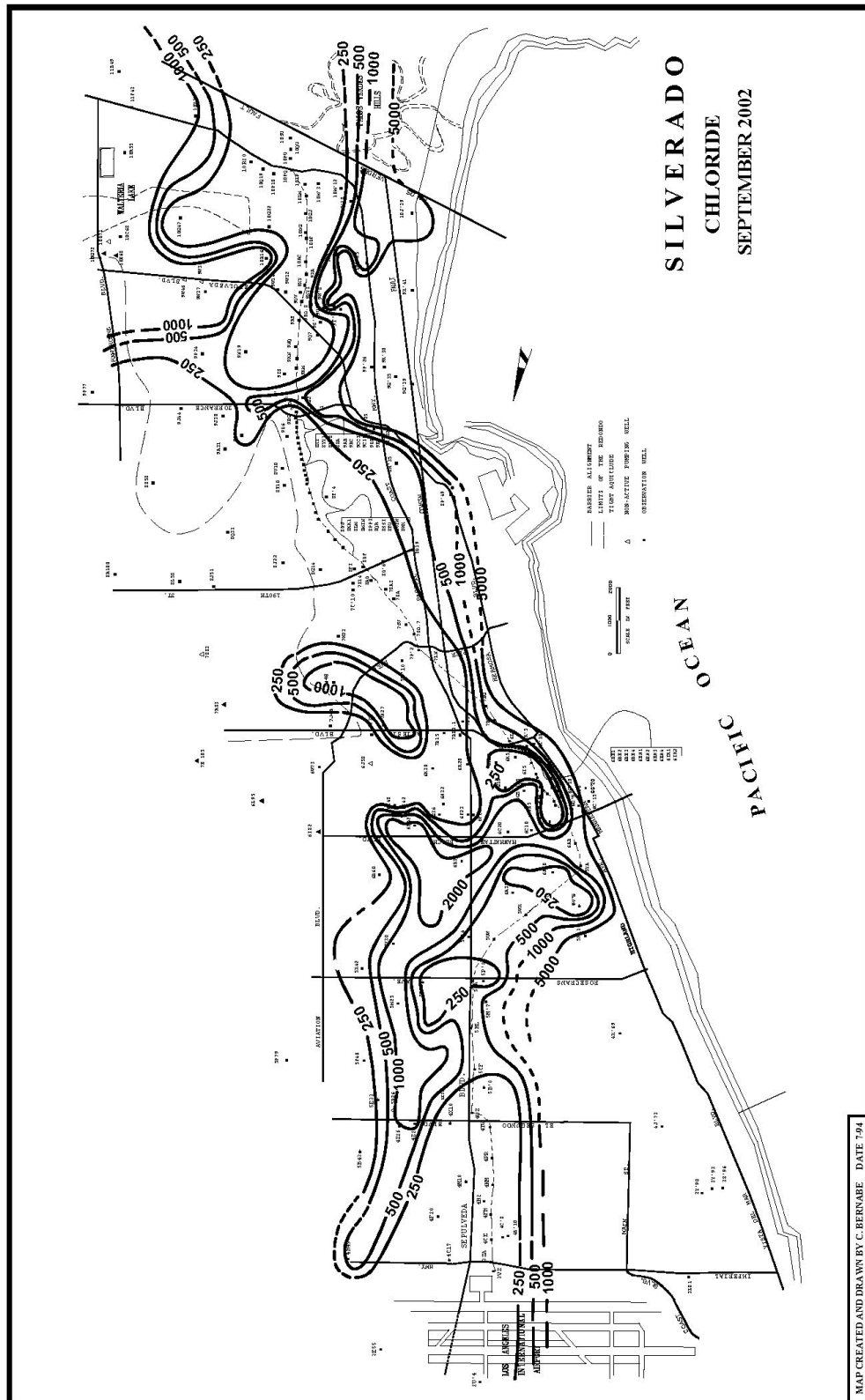


FIG. 11 – CHLORIDE LEVELS
(Figure from L. A. County Department of Public Works)

APPENDIX A

CONTINUING HISTORY OF WATERMASTER SERVICE AND ADMINISTRATION OF THE JUDGEMENT

History of Water Resources Development

The absence of adequate surface water supplies in the West Coast Basin forced the early development of groundwater sources. In 1870, the communities of Inglewood and Long Beach tapped the artesian wells and springs east of the Newport-Inglewood Uplift. When these stopped flowing, water users were forced to drill shallow wells. By 1904, about 100 wells were producing 10,000 acre-feet annually.

The techniques used to develop groundwater were advanced dramatically in 1909 with the advent of the deep-well turbine pump. Its tremendous adaptability and superior operating characteristics gave countless users access to efficient water wells. Dependable sources of water attracted industry and agriculture, and in time the demand for water exceeded the rate at which the Basin was being replenished naturally. Water levels throughout the Basin dropped below sea level in the 1920s, and wells along Santa Monica Bay were abandoned because the water was too salty. By 1932, the entire coastal reach of the Basin had been invaded by sea water.

Groundwater quality deterioration continued until 1945, when the California Water Service Company, the City of Torrance, and the Palos Verdes Water Company filed suit in Superior Court, Los Angeles County. Their objectives were to quiet title to the groundwater rights of each pumper and to establish control over groundwater extractions from the Basin. Other organizations moved to support the litigation and the West Basin Water Association was formed in 1946. A plan to manage the Basin's water resources was set up to:

1. Provide a supplemental supply for major producers;
2. Limit groundwater extractions; and
3. Create an exchange pool to provide pumping rights for users not having access to supplemental water.

The first of these steps was realized in 1947 when the West Basin Municipal Water District was formed to distribute water from the Colorado River. The District was annexed to The Metropolitan Water District of Southern California in 1948, and that year Colorado River water began flowing into the West Coast Basin, followed by State Water Project water in 1974.

In 1946, the second and third steps were taken with the Court's preliminary hearings to define the groundwater problem and outline those areas needing more information. The Court asked the Department of Water Resources (DWR) to define the boundaries and determine the geohydrologic characteristics of the West Coast Basin. DWR spent

six years analyzing the physical properties of the Basin. The major water producers also retained an Engineering Advisory Committee to aid in the investigation. As more information became available, the full magnitude of the problem became evident. In 1949, an amended complaint added 340 parties to the suit. A "Report of Referee" was filed with the Court on September 15, 1952.

Several years passed before water users became sufficiently alarmed by groundwater conditions to draft an Interim Agreement that reduced groundwater extractions until a final judgment could be approved. The Court approved the agreement on February 16, 1955, and appointed DWR as Watermaster to administer it.

A "Final Report of Referee", filed on June 8, 1961, included data on groundwater conditions between 1950 and 1956. The report provided the information needed to draft the final judgment. On August 18, 1961, after 16 years of litigation, the Court rescinded the Interim Agreement and signed the West Coast Basin Judgment. The Judgment retained DWR as Watermaster.

A second suit, often called the American Plant Growers Case, was filed on October 31, 1956. As a result, 76 additional parties were placed under jurisdiction of the Court on March 24, 1966. Appendix B lists all parties originally under jurisdiction of the Court and all successors in interest.

The Judgment was amended on March 21, 1980, to provide for a transition in the administrative year from a water year (October 1 to September 30) to a fiscal year (July 1 to June 30). Under the Judgment, this transition, in turn, contained a "short" administrative year of nine months--October 1, 1980, to June 30, 1981. The administrative year starting July 1, 1981, was on a fiscal year basis.

The Judgment was further amended on September 24, 1981, to: (1) establish a nonconsumptive water use right subordinate to the adjudicated rights and Hughes Aircraft Company became a party with zero water rights; and (2) authorize the production and disposal of water from wells to analyze and find a method of well operation for correction of increased salinity resulting or potentially resulting from sea water intrusion.

The Judgment was again amended on March 12, 1984, to provide for nonconsumptive additional water production to recover old refined oil and to clean up the basin. The Atlantic Richfield Company was given a 5-year permit to operate an oil recovery project; because all the water produced is returned to the basin, there will be no charge to the party's production. The Judgment was further amended on March 8, 1989, to revise the provisions for nonconsumptive clean-up operations. Chevron USA Inc. was given a permit for hydrocarbon clean-up on August 16, 1988. This permit was modified to increase the actual nonconsumptive production of up to 5,600 acre-feet. Mobil Oil Corporation was granted a permit following an October 22, 1991 hearing, for hydrocarbon clean-up under its Torrance Refinery.

The Judgment was further amended on July 7, 1993, effective retroactively to June 30, 1993, to modify the carryover provisions to 2 acre-feet or 20 percent of Adjudicated Right, whichever is greater.

The Judgment was amended on August 30, 2001, allowing the extraction of up to 3,300 acre-feet annually of saline water by the Water Replenishment District without obtaining an Adjudicated Right if the salinity exceeded 1000 ppm chloride, at the Goldsworthy Desalter.

Watermaster Service

DWR forms Watermaster Service Areas at the request of water users or by order of the Superior Court.

Once a month, every groundwater pumper reports its extractions to the Watermaster and each water right account is revised by computation of the amount pumped during the previous month, the total amount pumped thus far during the current fiscal year, and the amount that can legally be pumped during the remainder of the fiscal year. Each pumper receives an updated copy of its account every month.

Accurate measurement of groundwater extractions is absolutely necessary to the success of the Basin's management plan. Therefore, the field staff calibrates the water meter on every active water well at least once every three years. Every available means, including system efficiency tests, is used to confirm water meter test results. Inaccurate meters must be repaired in 30 days. Follow up tests on repaired meters and initial tests on new meters are scheduled whenever necessary.

One time in the fall and in the spring of each year the depth to the static groundwater level is measured in about 350 water wells in the Basin. The measurements are used to prepare "fall" and "spring" contour maps of groundwater elevations and "spring-to-spring" maps of areas of equal change in elevation over a one-year period.

Groundwater Recharge

Natural replenishment of the Basin's groundwater supply is limited to underflow from the Central Basin, which bounds the West Coast Basin on the east.

Water spread in the Central Basin percolates into aquifers there, and eventually some crosses the Newport-Inglewood Uplift to supplement the groundwater supply in the West Coast Basin. Although the water is not directly applied to the West Coast Basin, this process returns large quantities of water to the ground and substantially increases natural subsurface flow from the Central Basin to the West Coast Basin. Effectiveness of the process is limited to the space available in one basin for spreading facilities and to the other basin's capability for accepting the water.

In-lieu Replenishment

During the 1965-66 water year, the Water Replenishment District of Southern California (WRD) began a program of in-lieu replenishment. Any producer with access to supplemental water may use in-lieu replenishment water instead of water pumped from the ground. The program may be used to:

1. Alter pumping patterns within a groundwater basin;
2. Replenish areas of low transmissivity where conventional recharge techniques are ineffective;
3. Heighten the effect of injecting water to form a sea water barrier by reducing nearby extractions;
4. Reduce the amount of replenishment water purchased by WRD; or
5. Reduce the annual groundwater extraction from the West Coast Basin.

Sea Water Intrusion Barrier Projects

Sea water intrusion in the West Coast Basin along Santa Monica Bay has been effectively halted by the West Coast Basin Barrier Project, consisting of a line of 153 injection wells that parallels the coastline from Los Angeles International Airport to the Palos Verdes Hills.

The Los Angeles County Department of Public Works (LACDPW), which operates the project, injects State Water Project water and Colorado River water into the barrier to create a pressure ridge that impedes the inland movement of a salt water front and maintains protective groundwater elevations in the Silverado and "200-foot sand" aquifers. The scope of the project is shown in Figure 11, which illustrates the extent to which sea water has intruded into the merged phases of the Silverado aquifer.

Recently, the West Basin Municipal Water District has completed a tertiary treatment system to treat reclaimed water from the Hyperion wastewater treatment plant to produce water of acceptable quality to use for injection instead of State Water Project water and Colorado River water. Delivery of water from the plant, which includes reverse osmosis as a final treatment process, began in June 1995.

A second barrier to sea water intrusion was built by LACDPW along San Pedro Bay. This project, called the Dominguez Gap Barrier Project, started operating during February 1971 in a manner similar to that of the West Coast Basin Barrier Project. LACDPW has been constructing new injection wells at the Dominguez Gap Barrier. They expect to complete the project soon, which extends the barrier east.

Desalter Projects

In 1993, the West Basin Municipal Water District constructed a 1.5 million gallon per day desalting plant in the City of Torrance (Brewer Desalter) to treat brackish groundwater. The desalter is to demonstrate desalting technology and to improve groundwater quality and management. The Desalter is operated by California Water Service Company.

The Water Replenishment District has constructed and is operating the Goldsworthy Desalter plant. The plant is located in the City of Torrance field services facility and is desalting approximately 250 acre-feet of saline groundwater per month. The salinity of the extractions exceeds 1000 ppm chloride.

Water Recycling Program

The West Basin Municipal Water District has constructed a water recycling (reclamation) plant in El Segundo. The plant will recycle 70,000 acre-feet per year of reclaimed water from the City of Los Angeles' Hyperion treatment plant for distribution

to industrial and landscape users and into the West Coast Basin Barrier. Initial deliveries started in June 1995.

Groundwater Levels

The volume of groundwater stored in the West Coast Basin is constantly changed by variations in subsurface inflow and outflow, artificial recharge, extractions, and, to a lesser degree, precipitation. The Silverado aquifer, underlying most of the West Coast Basin, is the most productive aquifer in the Basin. Ranging from 100 to 500 feet in thickness, it yields 80 to 90 percent of the groundwater extracted annually.

Contours of groundwater surface elevations are shown in Figures 5 and 6 and the summarization of changes in water level elevations is shown in Figure 7.

State Well Numbers have been assigned to water wells in the Basin (Figure 12).

Water Use

Population increase and industrial growth in the West Coast Basin caused water demand to increase substantially from 1943 to 1970 when growth leveled off. Prior to 1955, Groundwater extractions met most of the demand. However, when the Judgment reduced extractions, imported water became the largest component of the Basin's water supply.

Figure 13 shows annual groundwater extractions and total water use since 1933.

Administration of the Judgment

The West Coast Basin Judgment contains provisions for the parties to obtain additional pumping rights, exceed their entitled extractions, or otherwise make variations in their annual pumping. The procedure thus established is described below.

Exchange Pool

The Court and Parties foresaw that adjudicating water rights and limiting total extractions within the Basin would not be satisfactory to all parties. As a consequence, Paragraph VI of the Judgment authorized a water Exchange Pool to provide additional

water rights to members without supplementary water. Membership in the Exchange Pool is voluntary, and any party can join by filing an "Intention to be Bound by Paragraph VI of the Judgment" with the Watermaster and the Court. Members of the Exchange Pool are referenced with an asterisk in Appendix B. Recipients of exchange

water may pump the amounts released to them in addition to their Adjudicated Right. Releases are limited by the Judgment.

Once each July, the Watermaster opens the Exchange Pool to permit this intermember exchange of water rights. The Pool is in operation when the Watermaster asks each member to estimate its water requirement and supply for the next year. If a member has supplemental water in addition to its Adjudicated Right and if its total supply exceeds its estimated requirement, it must make a Mandatory Offer to lease a portion of its pumping right equal to the difference between its Adjudicated Right and half its estimated requirement. Under no circumstance, however, can the Mandatory Offer and the estimated requirement together exceed the total supply. This limits the Mandatory Offer to an amount which can be replaced with supplemental water. Another type of offer is called the Voluntary Offer. Any member may voluntarily offer pumping rights to the Exchange Pool if its water supply exceeds its estimated requirement and it has no supplemental supply. However, the Watermaster must allocate all Mandatory Offers before using the Voluntary Offers. Voluntary Offers have not been used for several years.

The charge for a Mandatory Offer cannot exceed the price per acre-foot of replacement water; the charge for a Voluntary Offer cannot exceed the price per acre-foot charged by the West Basin Municipal Water District for imported water. The Watermaster determines the amount of water needed and computes the average price to be paid. The cost per acre-foot is the weighted average price per acre-foot of all offers required to meet requests.

If a member's estimated water requirement exceeds its total water right, including leases, and it has no supplemental supply, the difference may be requested from the Exchange Pool.

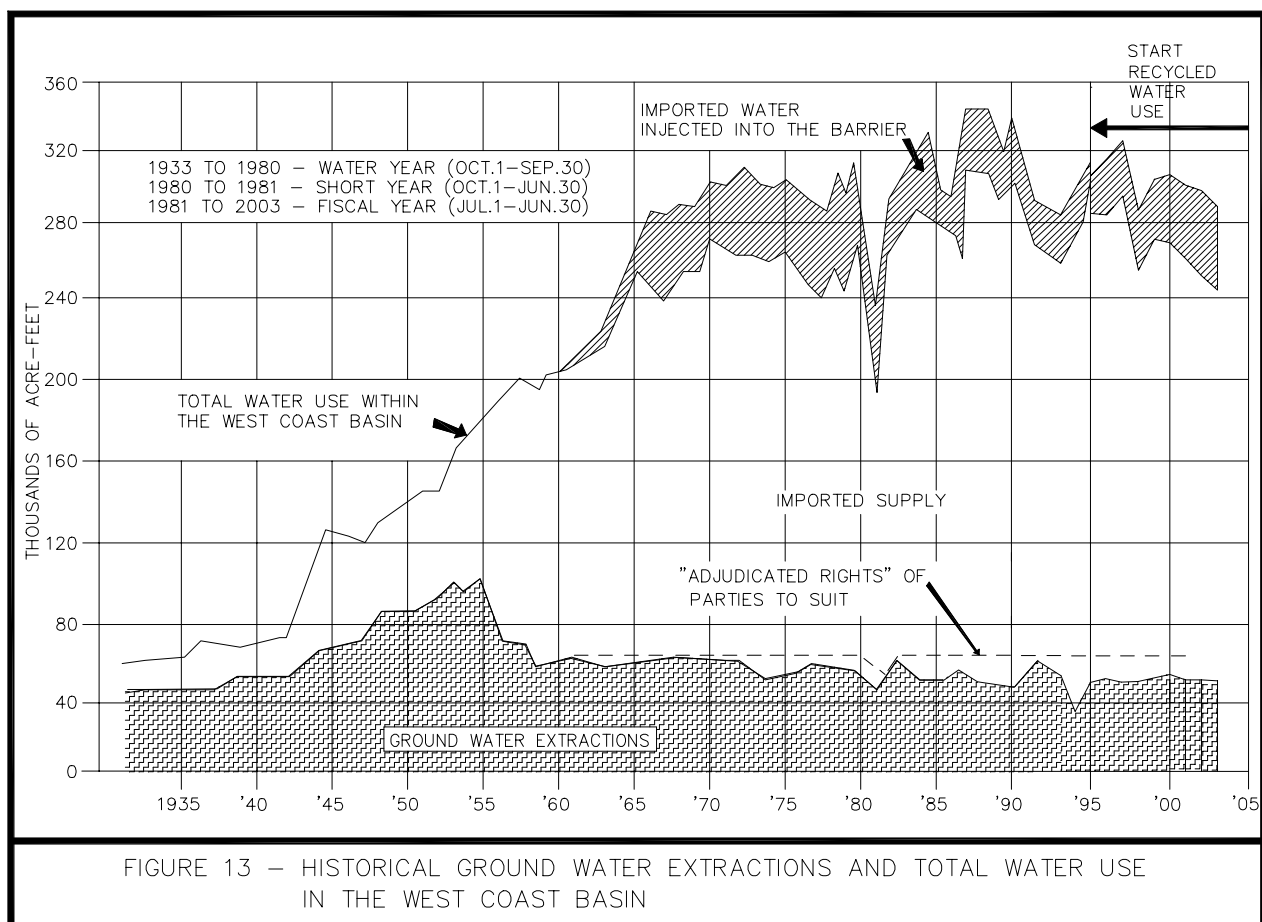
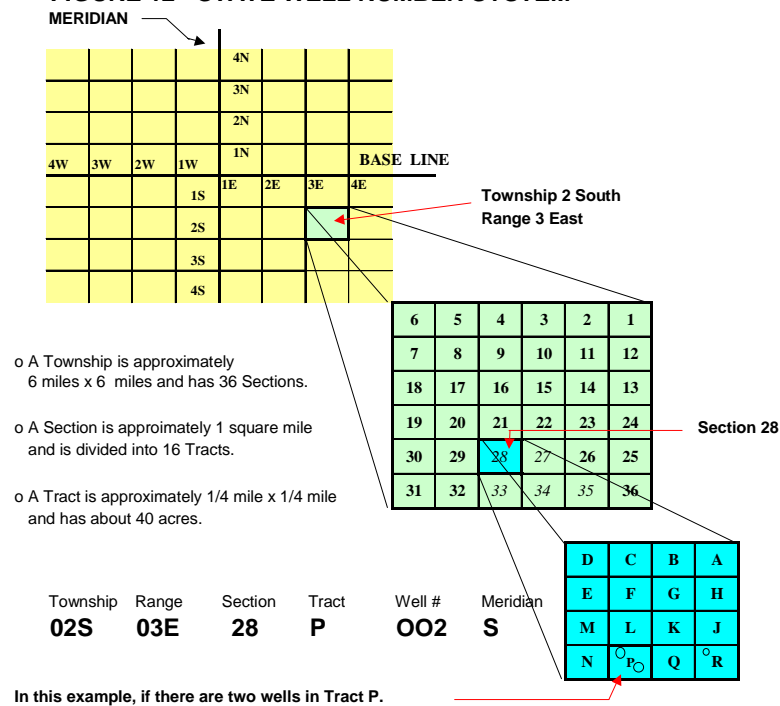
Transfers of Adjudicated Rights

Appendix B contains a copy of the documents substantiating each transfer. It also contains samples of recommended lease and sale agreements. The Watermaster recommends that documents be prepared on 8-1/2 x 11-inch paper.

Any necessary additions to the recommended agreement may be made by attaching another page.

In leasing, buying, or selling water rights, parties should be specific as to the type being exchanged, (i.e., Adjudicated Right, carryover). All leases should specify both amount of Adjudicated Right, to the nearest 0.01 acre-foot, and period of lease. All water right leases should be made on a fiscal year basis, (i.e., July 1 through June 30 of the following year).

The Watermaster keeps a list of parties who have expressed their interest in buying, selling, or leasing water rights. Any party wishing to be listed should call the Watermaster. This is not done as a Court-required function of Watermaster service. It is a courtesy informally administered to assist parties unable to resolve problems regarding an excess or deficiency of water rights. Watermaster makes no recommendation regarding transactions conducted relative to the use of this service. The names of all parties using this service are available in the Watermaster's office and may be obtained by telephone or visit to the office, or at our website <http://www.dpla.water.ca.gov/sd/>.

FIGURE 12 - STATE WELL NUMBER SYSTEM

APPENDIX B**ADJUDICATED RIGHTS OF WEST COAST BASIN PARTIES**Acknowledgement of Deed of Water Rights

Will be provided upon request.

Suggested Sample Documents for Transferring Water Rights 40

Succession of Adjudicated Rights in West Coast Basin 41

(Documents supporting yearly
leases not included in annual
report)

SUGGESTED SAMPLES OF DOCUMENTS FOR TRANSFERRING WATER RIGHTS

YEARLY LEASE	PERMANENT TRANSFER
<p><u>WATER RIGHT LICENSE AND AGREEMENT</u></p> <p>For a valuable consideration, THE JOHN DOE COMPANY hereby grants to John Smith: a license to extract _____ acre-feet of Licensor's Adjudicated Right allocated to Licensor (or predecessors in interest) under and pursuant to Judgment dated August 18, 1961 and entered in Los Angeles Superior Court Case No. 506806 entitled "California Water Service Company, et al. vs. City of Compton, et al." during the period commencing July 1, 20____ and continuing to and including June 30, 20____.</p> <p>Said License is granted subject to the following conditions:</p> <ol style="list-style-type: none"> (1) Licensee shall exercise said right and extract the same on behalf of THE JOHN DOE COMPANY during the period above specified and put the same to beneficial use and Licensee shall not by the exercise hereunder of said right acquire any right to extract water independent of the rights of Licensor. (2) Licensee shall pay assessments levied on the pumping of said ground waters by the Water Replenishment District of Southern California. (3) Licensee shall notify the District and the Watermaster that said pumping was done pursuant to this license and provide the Watermaster with a copy of this document. (4) Licensee shall note, in any recording of water production for the period of agreement, that said pumping was done pursuant to this license. (5) Licensee's Adjudicated Right _____ (shall) (shall not) be increased by the amount hereby leased when computing carryover or allowable overextraction as provided by Paragraph V(1) in said Judgment. <p>THE JOHN DOE COMPANY warrants that it has _____ acre-feet of Adjudicated Right and that it has not pumped and will not pump or permit or license any other person to pump any part of said _____ acre-feet during the period of July 1, 20____ through June 30, 20____.</p> <p>Dated: _____</p> <p>THE JOHN DOE COMPANY JOHN SMITH</p> <p>By _____ By _____</p> <p>Title _____ Title _____</p>	<p><u>DEED OF WATER RIGHTS</u></p> <p>For a valuable consideration, JOHN SMITH hereby sells and transfers to THE JOHN DOE COMPANY:</p> <p>The Right to extract _____ acre-feet of grantor's Adjudicated Right allocated to grantor (or predecessors in interest) under and pursuant to Judgment dated August 18, 1961 and entered in Los Angeles Superior Court Case No. 506806 entitled "California Water Service Company, et al. vs. City of Company, et al."</p> <p>Dated: _____</p> <p>THE JOHN DOE COMPANY JOHN SMITH</p> <p>By _____ By _____</p> <p>Title _____ Title _____</p>

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

<u>ABC NURSERY, INC</u>		
SUCCESSOR TO JENKINS, HARRY C	1.80	
SUCCESSOR TO TITILE, SIDNEY R AND CHARLOTTE W	13.60	
SUCCESSOR TO VERBURG, WILLIAM AND CLARA B	6.70	
SUCCESSOR IN PART TO UNITED CALIFORNIA BANK	2.00	
TOTAL	<u>24.10</u>	
<u>ABELL, FRANK</u>	1.80	
SOLD TO CITY OF INGLEWOOD	-1.80	
TOTAL	0.00	
<u>ALCAST FOUNDRY, ET AL</u>	7.20	
SOLD TO CITY OF TORRANCE	-7.20	
TOTAL	0.00	
<u>ALLIED CHEMICAL CORP</u> (SEE INDUSTRIAL CHEMICAL DIVISION, ALLIED CHEMICAL CORP)		
ALLIED CORP (FORMERLY: ALLIED CHEMICAL CORP) (NOW KNOWN AS ALLIED-SIGNAL, INC [EL SEGUNDO OFFICE])		
<u>ALLIED-SIGNAL, INC (TORRANCE OFFICE)</u>		
SUCCESSOR TO GARRETT CORP, THE	22.50	<u>22.50</u>
ALLIED-SIGNAL, INC (EL SEGUNDO OFFICE) (FORMERLY: ALLIED CORP (MERGED WITH HONEYWELL INTERNATIONAL, INC AND NAME CHANGED TO HONEYWELL INTERNATIONAL, INC)	255.00 -255.00	
TOTAL	0.00	
<u>ALWAG, HILARIO S AND EMMA</u>		
SUCCESSOR TO T C NAVARRO	53.90	
SUCCESSOR TO PEGGY SWICK	5.50	
SOLD TO TORRANCE UNIFIED SCHOOL DISTRICT	-59.40	
TOTAL	0.00	
<u>AMERICAN PLANT GROWERS, INC</u>		
SECOND WEST COAST BASIN JUDGMENT	2.60	
SUCCESSOR TO BEN CLUFF DAIRY	7.40	
SOLD TO SUNRISE GROWERS, INC	-10.00	
SUCCESSOR TO SUNRISE GROWERS, INC	10.00	
TOTAL	<u>10.00</u>	
<u>ANDERSON, REMBERT C</u>	80.50	
SOLD TO SPARKLETTS DRINKING WATER CORP	-80.50	
TOTAL	0.00	
<u>ASAHI FANCY KOI, INC</u>		
SUCCESSOR IN PART TO JAKE ENGELSMA	2.00	<u>2.00</u>
ASSOCIATED SOUTHERN INVESTMENT CO (FORMERLY EDISON SECURITIES CO)	46.70	
SOLD TO SOUTHERN CALIFORNIA EDISON CO	-46.70	
TOTAL	0.00	
<u>ATLANTIC RICHFIELD CO</u> (FORMERLY RICHFIELD OIL CO)	4,428.00	
SUCCESSOR TO MANVILLE SALES CORP	881.00	
TOTAL	<u>5,309.00</u>	
<u>AUTOMATION INDUSTRIES, INC-HARRIS TUBE</u>		
SUCCESSOR TO HARRIS TUBE, INC	0.70	<u>0.70</u>
<u>BALLMAN, ROSEMARY N</u>	7.00	
SOLD TO UNITED CALIFORNIA BANK	-7.00	
TOTAL	0.00	
<u>BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION (TRUST BI-51)</u>	0.10	
RELEASED TO MICHAEL L ROCKWELL	-0.10	
TOTAL	0.00	
<u>BARCLAY HOLLANDER CORP</u> (FORMERLY BARCLAY HOLLANDER CURCI INC)		
SUCCESSOR IN PART TO JOUGHIN	3.33	
TORRANCE RANCH		
SOLD TO TORRANCE, CITY OF	-3.33	
TOTAL	0.00	
<u>BARCLAY HOLLANDER CURCI INC</u> (NOW KNOWN AS BARCLAY HOLLANDER CORP)		
<u>BARCLAY, RICHARD AND R A WATT</u>		
SUCCESSORS TO EMMA J OSBORN	32.66	
SUCCESSORS IN PART TO ISABELA J GRANZ	13.55	
ESTATE		
SUCCESSORS IN PART TO GEORGE R	13.75	
MURDOCK		
SOLD TO CITY OF TORRANCE	-59.96	
TOTAL	0.00	
<u>BAUMAN, GUS A</u>	0.00	
TRANSFERRED TO PALOS VERDES BEGONIA FARM		
<u>BELVIDERE MUTUAL WATER CO</u>	33.40	
SOLD TO CITY OF TORRANCE	-33.40	
TOTAL	0.00	
<u>BLACK, DANA</u>		
SUCCESSOR IN PART TO ESTATE OF JOHN GRANT	11.80	<u>11.80</u>
BOISE CASCADE BUILDING CO		
SUCCESSOR IN PART TO JOUGHIN	16.92	

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

TORRANCE RANCH		
SOLD TO INGLEWOOD, CITY OF	-16.92	
TOTAL		0.00
<u>BOARD OF RETIREMENT-LOS ANGELES CO EMPL RET SYS</u> SECOND WEST COAST BASIN JUDGMENT (NOW KNOWN AS LOS ANGELES COUNTY WESTERN AVE GOLF)		
<u>BRANDSMA, MAYNARD</u>		
SUCCESSOR IN PART TO ESTATE OF JOHN GRANT	11.80	<u>11.80</u>
<u>BURKE, W F AND LOIS PRICE</u>	9.50	
SOLD TO H S SCOTT	-9.50	
TOTAL		0.00
<u>CBS INC</u>		
FORMERLY COLUMBIA BROADCASTING SYS INC	18.50	
SOLD TO MORAN, RONALD E	-9.00	
TOTAL		<u>9.50</u>
<u>CALIFORNIA, STATE OF</u>		
SUCCESSOR TO ROBERT L FULLILOVE	1.00	
SUCCESSOR TO JOE MONIZ JR	2.20	
SUCCESSOR IN PART TO KELLY PIPE CO	16.30	
SUCCESSOR IN PART TO FLAVIO RODRIGUEZ	4.00	
SUCCESSOR IN PART TO A H SMITH (SAM SURBER AND FRED A SMITH)	2.60	
SOLD TO SPARKLETTS DRINKING WATER CORP	-26.10	
TOTAL		0.00
<u>CALIFORNIA WATER SERVICE CO</u>	3,071.00	
SUCCESSOR TO PALOS VERDES WATER CO	999.00	
TOTAL		<u>4,070.00</u>
<u>CALIFORNIA WATER SERVICE CO (DOMINGUEZ)</u>		
DOMINGUEZ WATER CO MERGED WITH AND INTO CALIFORNIA WATER SERVICE CO, WATERMASTER ACCOUNT KNOWN AS CALIFORNIA WATER SERVICE CO (DOMINGUEZ)	10,162.45	
SUCCESSOR TO HONEYWELL INTERNATIONAL INC	255.00	
TOTAL		<u>10,417.45</u>
<u>CARSON ESTATE CO</u>	130.00	
SOLD TO DOMINGUEZ WATER CORP	-130.00	
TOTAL		0.00
<u>CARSON-HARBOR VILLAGE MOBILE HOME PARK</u>		
SUCCESSOR TO ETCHEMENDY, CAROLINE, ESTATE OF	8.20	<u>8.20</u>
<u>CARSON-MADRONA CO</u>		
SUCCESSOR TO CHANSLOR-WESTERN OIL AND DEVELOP CO	104.00	<u>104.00</u>
<u>CENTURY BUILDERS</u>		
SUCCESSOR TO UNION NURSERY, INC	4.70	<u>4.70</u>
<u>CHANDLERS PALOS VERDES SAND AND GRAVEL CORP</u>		
SUCCESSOR TO SOUTHWESTERN PORTLAND CEMENT CO	15.00	
SECOND WEST COAST BASIN JUDGMENT	95.20	
SUCCESSOR TO TORRANCE SAND AND GRAVEL CORP	184.00	
TOTAL		<u>294.20</u>
<u>CHANSLOR-WESTERN OIL AND DEVELOPMENT CO</u>	104.00	
(FORMERLY CHANSLOR-CANFIELD MIDWAY OIL CO)		
SOLD TO CARSON-MADRONA CO	-104.00	
TOTAL		0.00
<u>CHEMICALS CO OF ALLIED CORP</u> (FORMERLY INDUSTRIAL CHEMICAL DIVISION, ALLIED CHEMICAL CORP) (NOW KNOWN AS ALLIED CORP)		
<u>CHEVRON USA INC</u>	4,541.70	
(FORMERLY STANDARD OIL CO OF CALIFORNIA)		
SUBJECT TO LONG TERM LEASE FROM ISABELLA GRANZ PER JUDGEMENT	59.60	
TOTAL		<u>4,601.30</u>
<u>CHRISTIE, CLEM, DON C FOHL AND LEON LARSON</u>	0.02	
(TRUSTEES OF WILMINGTON CEMETERY ASSOC)		
ABANDONED WATER RIGHT	-0.02	
TOTAL		0.00
<u>CHURCHILL DOWNS CALIFORNIA CO</u>		
SUCCESSOR TO HOLLYWOOD PARK OPERATING CO	282.00	<u>282.00</u>
CLUFF, BEN DAIRY		
SUCCESSOR TO EDWARD AND EMILY COST	7.40	
SOLD TO AMERICAN PLANT GROWERS, INC	-7.40	
TOTAL		0.00
<u>COAST FOREST PRODUCTS</u>		
SUCCESSOR TO SOUTHWEST STEEL ROLLING MILLS	3.40	
SOLD TO GEORGIA-PACIFIC CORP	-3.40	
TOTAL		0.00
<u>COASTLINE CHURCH OF CHRIST</u>		
SUCCESSOR TO LERMENS, EVELYN	0.70	<u>0.70</u>

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

COLLISTER, CAMERON		
SUCCESSOR TO JOUGHIN TORRANCE RANCH	136.82	
QUITCLAIMED TO NORMANDIE PARK TOTAL	-136.82	0.00
COLUMBIA BROADCASTING SYSTEM, INC (NOW KNOWN AS CBS INC)		
CONOCOPHILLIPS COMPANY		
SUCCESSOR TO TOSCO CORPORATION	6,170.00	6,170.00
COST, EDWARD AND EMILY	7.40	
SOLD TO BEN CLUFF DAIRY TOTAL	-7.40	0.00
CURTIS, OWEN W	3.80	
SOLD TO SOUTHERN CALIFORNIA WATER CO TOTAL	-3.44	0.36
DEL AMO ESTATE CO	121.00	
SOLD TO DOMINGUEZ WATER CORP TOTAL	-121.00	0.00
DELANEY, GOLDA, ESTATE OF (FORMERLY ARTHUR J DELANEY)		
SUCCESSOR TO BEGO CORP	4.10	4.10
DENNIS, ESTHER M SHEETS (FORMERLY ESTHER M SHEETS)	5.50	
SOLD TO TORRANCE, CITY OF TOTAL	-5.50	0.00
DESSER ENTERPRISES		
SECOND WEST COAST BASIN JUDGMENT	0.00	0.00
DOMINGUEZ ESTATE CO	254.00	
SOLD TO DOMINGUEZ WATER CORP TOTAL	-254.00	0.00
DOMINGUEZ WATER CORP (NOW KNOWN AS DOMINGUEZ WATER CO)		
DOMINGUEZ WATER CO	9,477.80	
(FORMERLY KNOWN AS DOMINGUEZ WATER CORP)		
SUCCESSOR TO CARSON ESTATE CO	130.00	
SUCCESSOR TO DEL AMO ESTATE CO	121.00	
SUCCESSOR TO DOMINGUEZ ESTATE CO	254.00	
SUCCESSOR TO DON WILSON BUILDERS	32.60	
SUCCESSOR TO HEYDENBECK, JEANETTE R	0.70	
SUCCESSOR TO NAKANO, KIKUNO, ET AL	19.30	
SUCCESSOR IN PART TO H J EARLY	91.00	
SUCCESSOR IN PART TO R A WATT, INC	61.85	
SOLD IN PART TO WATSON LAND CO	-37.60	
SUCCESSOR TO THORPE, GREGORY	11.80	
DOMINGUEZ WATER CO MERGED WITH AND INTO CALIFORNIA WATER SERVICE CO, WATERMASTER ACCOUNT KNOWN AS CALIFORNIA WATER SERVICE CO (DOMINGUEZ)	-10,162.45	
TOTAL		0.00
DON WILSON BUILDERS		
SUCCESSORS TO KASUO, ISAMU, AND YOSHIKI R KITA	32.60	
SOLD TO DOMINGUEZ WATER CORP TOTAL	-32.60	0.00
DOUGLAS AIRCRAFT CO, INC (SEE MCDONNELL DOUGLAS CORP)		
EARLY, H J AND DAISY	111.00	
SOLD TO DOMINGUEZ WATER CORP	-91.00	
SOLD TO SAMUEL R AND RAYMOND S FUJIMOTO TOTAL	-20.00	0.00
EDISON SECURITIES CO (NOW KNOWN AS ASSOCIATED SOUTHERN INVESTMENT CO)		
EL SEGUNDO, CITY OF	953.00	953.00
ENGELSMA, JAKE		
SUCCESSOR TO WILBUR HORNSTRA	14.10	
SOLD TO ASahi FANCY KOI, INC	-2.00	
TRANSFERRED TO SUSAN ENGELSMA, TRUSTEE ET AL TOTAL	-12.10	0.00
ENGELSMA, SUSAN; TRUSTEE OF THE SUSAN ENGELSMA TRUST		
TRANSFERRED FROM JAKE ENGELSMA	12.10	12.10
EQUILON ENTERPRISES, LLC		
SUCCESSOR TO TEXACO REFINING AND MARKETING, INC	3,432.00	
SOLD TO SHELL OIL PRODUCTS US TOTAL	-3,432.00	0.00
ETCHEMENDY, CAROLINE, ESTATE OF	8.20	
SOLD TO CARSON-HARBOR VILLAGE MOBILE HOME PARK TOTAL	-8.20	0.00
EVERGREEN AMERICA CORP		
SUCCESSOR TO POTHOS CORP	5.40	5.40
EWING, CARMELITA ROSECRANS	91.30	
SOLD TO SOUTHERN CALIFORNIA WATER CO TOTAL	-91.30	0.00
EWING, NED ET AL		

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

SUCCESSOR IN PART TO ISABEL J GRANZ ESTATE	6.50	
SOLD TO R A WATT, INC TOTAL	-6.50	0.00
FLESH, LESLIE R AND ANDOR PASTERNAK, ET AL		
SUCCESSORS TO ALFRED D AND RUTH SEABACK	3.50	
SOLD TO STANLEY C LAGERLOF TOTAL	-3.50	0.00
FLETCHER OIL AND REFINING CO (FORMERLY FLETCHER OIL CO)	86.30	
SUCCESSOR TO FLETCHER, ROBERT G ET AL	3.70	
SOLD TO WESTERN WATER CO TOTAL	-90.00	0.00
FLETCHER, ROBERT G, DANIEL S, AND WILFRED O		
SUCCESSOR TO FRED A JUNGQUIST	3.70	
SOLD TO FLETCHER OIL AND REFINING CO TOTAL	-3.70	0.00
FUJIMOTO, SAMUEL R (FORMERLY KNOWN AS FUJIMOTO, SAMUEL R AND RAYMOND S)		
SUCCESSOR IN PART TO H J AND DAISY	20.00	
EARLY		
SOLD TO FUJIMOTO, SAMUEL R, STEVEN T AND JON T JOINT TENANTS TOTAL	-20.00	0.00
FUJIMOTO, SAMUEL R AND RAYMOND S (SEE FUJIMOTO, SAMUEL R)		
FUJIMOTO, SAMUEL R, STEVEN T AND JON K, JOINT TENANTS		
SUCCESSOR TO FUJIMOTO, SAMUEL R	20.00	20.00
FULLILOVE, ROBERT L	1.00	
SOLD TO STATE OF CALIFORNIA TOTAL	-1.00	0.00
FUTURA INDUSTRIES, INC		
SUCCESSOR TO SPANISH AMERICAN INSTITUTE	44.40	
SOLD TO KAUFMAN, LEO AND SHELDON BAER TOTAL	-44.40	0.00
GARRETT CORP, THE		
SUCCESSOR TO SHINODA BROTHERS INC	22.50	
TRANSFERRED TO ALLIED-SIGNAL INC (TORRANCE OFFICE) TOTAL	-22.50	0.00
GATX TANK STORAGE TERMINALS CORP		
SUCCESSOR TO PHILLIPS PETROLEUM CO	167.00	
SOLD TO KINDER MORGAN LIQUIDS TERMINALS, LLC. TOTAL	-167.00	0.00
GEORGIA-PACIFIC CORP		
SUCCESSOR TO COAST FOREST PRODUCTS	3.40	
SOLD TO INGLEWOOD, CITY OF TOTAL	-3.40	0.00
GERAHUE LAND CO		
SUCCESSOR AND ASSIGNEE FOR A S	11.90	
JOHNSTON DRILL CO		
ABANDONED WATER RIGHT TOTAL	-11.90	0.00
GILLINGHAM, FLORENCE R, ET AL	2.40	2.40
GONZALES, FELIPE AND GABRIELA (NOW KNOWN AS GONZALES, GABRIELA AND MARIA R)		
GONZALES, GABRIELA AND MARIA R (FORMERLY GONZALES, FELIPE AND GABRIELA)	34.30	
SOLD TO TORRANCE, CITY OF TOTAL	-34.30	0.00
GRAND LAND CO		
SUCCESSOR IN PART TO SMITH, A H, ET AL	5.70	
ABANDONED WATER RIGHTS 1961-62 TOTAL	-5.70	0.00
GRANT, JOHN, ESTATE OF	59.00	
APPORTIONED IN PART TO BLACK, DANA	-11.80	
APPORTIONED IN PART TO BRANDSMA, MAYNARD	-11.80	
APPORTIONED IN PART TO HONOLD, KRISTIN BRANDSMA	-11.80	
APPORTIONED IN PART TO THORPE, GREGORY	-11.80	
APPORTIONED IN PART TO THORPE, TERENCE TOTAL	-11.80	0.00
GRANZ, ISABELA J	380.00	
PARTITIONED TO HEIRS:		
ISABELA J GRANZ ESTATE	-33.80	
JOUGHIN TORRANCE RANCH	-212.42	
GEORGE R MURDOCK	-15.12	
EMMA J OSBORN	-32.66	
SUBJECT TO LONG TERM LEASE TO: STANDARD OIL CO OF CALIF	-59.60	
SUPERIOR OIL CO	-26.40	

**SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST
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TOTAL		0.00
GRANZ, ISABELA J, ESTATE OF		
SUCCESSOR IN PART TO ISABELA J GRANZ	33.80	
SOLD IN PART TO RICHARD BARCLAY AND R A WATT	-13.55	
SOLD IN PART TO NED EWING, ET AL	-6.50	
SOLD IN PART TO R A WATT, INC	-13.75	
TOTAL		0.00
HARRIS, R AND L		
SUCCESSOR TO LAWRENCE I LISTON	0.70	
DISCLAIMED WATER RIGHT	-0.70	
TOTAL		0.00
HARRIS TUBE, INC		
SUCCESSOR IN PART TO B ROBINSON AND ASSOCIATES	0.70	
TRANSFERRED TO AUTOMATION IND INC- HARRIS TUBE	-0.70	
TOTAL		0.00
HAWTHORNE, CITY OF	1,882.00	1,882.00
HENDERSON, BEATRICE M	1.30	
ABANDONED WATER RIGHT	-1.30	
TOTAL		0.00
HEYDENBECK, JEANETTE R		
(FORMERLY JEANETTE R REIFSNYDER)	0.70	
SOLD TO DOMINGUEZ WATER CORP	-0.70	
TOTAL		0.00
HILLSIDE MEMORIAL PARK	16.70	
SUCCESSOR TO SANTA FE LAND IMPROVEMENT CO	39.50	
SUCCESSOR TO SIGMUND S AND LIONEL S HOCKWALD	12.50	
TOTAL		68.70
HOCKWALD, SIGMUND S AND LIONEL S	12.50	
SOLD TO HILLSIDE MEMORIAL PARK	-12.50	
TOTAL		0.00
HOLLYWOOD PARK INC		
(FORMERLY HOLLYWOOD TURF CLUB)		
(NOW KNOWN AS HOLLYWOOD PARK OPERATING CO)		
HOLLYWOOD PARK OPERATING CO		
(FORMERLY HOLLYWOOD PARK INC)	282.00	
SOLD TO CHURCHILL DOWNS CALIFORNIA CO	-282.00	
TOTAL		0.00
HOLLYWOOD TURF CLUB		
(NOW KNOWN AS HOLLYWOOD PARK INC)		
HONEYWELL INTERNATIONAL INC		
MERGED WITH ALLIED-SIGNAL INC (EL SEGUNDO OFFICE) AND THE CORP NAME CHANGED TO HONEYWELL INTERNATIONAL INC	255.00	
SOLD TO CALIFORNIA WATER SERVICE CO (DOMINGUEZ)	-255.00	
TOTAL		0.00
HONOLD, KRISTIN BRANDSMA		
SUCCESSOR IN PART TO ESTATE OF JOHN GRANT	11.80	11.80
HORNSTRA, WILBUR	14.10	
SOLD TO JAKE ENGELSMA	-14.10	
TOTAL		0.00
HUGHES AIRCRAFT	0.00	0.00
(SEE 1981 JUDGMENT ORDER)		
HUNT, DONALD G		
SUCCESSOR TO JAMES SCANDA	1.90	
SOLD TO KENICHI INOSE	-1.90	
TOTAL		0.00
INDUSTRIAL CHEMICAL DIVISION, ALLIED CHEMICAL CORP		
(FORMERLY ALLIED CHEMICAL CORP, GEN CHEMICAL CO)		
(NOW KNOWN AS ALLIED CORP)		
INGLEWOOD, CITY OF	4,382.00	
SUCCESSOR TO ABELL, FRANK	1.80	
SUCCESSOR TO BOISE CASCADE BUILDING CO	16.92	
SUCCESSOR TO GEORGIA-PACIFIC CORP	3.40	
SUCCESSOR TO KAUFMAN, LEO AND SHELDON BAER	44.40	
SUCCESSOR IN PART TO GEORGE R MURDOCK	1.37	
TOTAL		4,449.89
INOSE ET AL		
(KEN K INOSE, KAY K INOSE, KIYOKO YOSHIYAMA, KENICHI INOSE, KAYOKO K INOSE AND DAVID T NAKATANI, TRUSTEE OF THE INOSE CHILDREN TRUST U/D/T DATE 11/1/78)		
(FORMERLY INOSE, KENICHI)		
SUCCESSOR TO HUNT, DONALD G	1.90	
SUCCESSOR TO THAXTER, RALPH AND LOIS A LENOIR	3.50	
SOLD TO POTHOS CORP	-5.40	
TOTAL		0.00
INOSE, KENICHI		
(NOW KNOWN AS INOSE ET AL)		

**SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST
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JENKINS, HARRY C		
SUCCESSOR TO H L PERRY	1.80	
SOLD TO ABC NURSERY, INC	-1.80	
TOTAL		0.00
JOHNS-MANVILLE PRODUCTS CORP		
(SEE JOHNS-MANVILLE SALES CORP)		
JOHNS-MANVILLE SALES CORP		
(FORMERLY: JOHNS-MANVILLE PRODUCTS CORP MANVILLE SERVICE CORP)		
(NOW KNOWN AS MANVILLE SALES CORP)		
TOTAL		0.00
JOHNSTON, A S, DRILLING CO	11.90	
ASSIGNED TO GERAHUE LAND CO	-11.90	
TOTAL		0.00
JONES, ANNA MAE	50.20	
SOLD TO CITY OF TORRANCE	-50.20	
TOTAL		0.00
JOUGHIN TORRANCE RANCH		
SUCCESSOR IN PART TO ISABELA J GRANZ	212.42	
SOLD IN PART TO BARCLAY HOLLANDER CURCI INC	-3.33	
SOLD IN PART TO BOISE CASCADE BUILDING CO	-16.92	
SOLD IN PART TO COLLISTER, CAMERON	-136.82	
SOLD IN PART TO R A WATT, INC	-55.35	
TOTAL		0.00
JUNGQUIST, FRED A		
(FORMERLY KATHERINE P WOODMAN)	3.70	
SOLD TO ROBERT G FLETCHER ET AL	-3.70	
TOTAL		0.00
KAHLERT, ET AL		
AND SUCCESSOR IN PART TO KELLY PIPE CO	18.90	
SOLD TO SPARKLETTS DRINKING WATER CORP	-18.90	
TOTAL		0.00
KAUFMAN, LEO AND SHELDON BAER		
SUCCESSOR TO FUTURA INDUSTRIES INC	44.40	
SOLD TO CITY OF INGLEWOOD	-44.40	
TOTAL		0.00
KELLY PIPE CO	49.00	
SOLD IN PART TO STATE OF CALIFORNIA	-16.30	
SOLD IN PART TO KAHLERT, ET AL	-18.90	
SOLD IN PART TO SPARKLETTS DRINKING WATER CORP	-13.80	
TOTAL		0.00
KINDER MORGAN LIQUIDS TERMINALS, LLC.		
SUCCESSOR TO GATX TANK STORAGE TERMINALS CORP.	167.00	167.00
KITA, ISAMU, KASUO, AND YOSHIKI R	32.60	
SOLD TO DON WILSON BUILDERS	-32.60	
TOTAL		0.00
KURTZ, GLADYS	3.50	
SOLD TO SPARKLETTS DRINKING WATER CORP	-3.50	
TOTAL		0.00
LAGERLOF, STANLEY C		
SUCCESSOR TO LESLIE R FLESCH AND ANDOR PASTERNAK, ET AL	3.50	
SOLD TO SHELL OIL CO	-3.50	
TOTAL		0.00
LAWLER, JAMES K	3.10	
SOLD TO B ROBINSON AND ASSOC	-3.10	
TOTAL		0.00
LERMENS, EVELYN		
(FORMERLY LERMENS, ALFRED)	0.70	
SOLD TO COASTLINE CHURCH OF CHRIST	-0.70	
TOTAL		0.00
LEUZINGER, EMMA L	1.40	1.40
LISTON, LAWRENCE	0.70	
SOLD TO R AND L HARRIS	-0.70	
TOTAL		0.00
LITTLE, WILLIAM		
SUCCESSOR TO ROCKWELL, MICHAEL	0.10	
SOLD TO WATT INDUSTRIAL PROPERTIES	-0.10	
TOTAL		0.00
LOMITA, CITY OF WATER SYSTEM (WWD 13)	1,352.00	1,352.00
(FORMERLY LOS ANGELES COUNTY WATERWORKS DISTRICT NO 13)		
LONG BEACH, CITY OF	0.70	0.70
LOPES, FRANK	3.70	3.70
LOS ANGELES, CITY OF	1,503.00	1,503.00
LOS ANGELES COUNTY-ALONDRA PARK	28.70	
SUCCESSOR TO LOS ANGELES COUNTY FLOOD CONTROL DIST	39.00	
TOTAL		67.70
LOS ANGELES COUNTY CHESTER L WASHINGTON GOLF COURSE		
(FORMERLY LOS ANGELES COUNTY WESTERN AVENUE GOLF COURSE)	296.00	296.00
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	37.60	

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

SUCCESSOR IN PART TO A H SMITH, ET AL	1.40	
SOLD TO LOS ANGELES COUNTY - ALONDRA	-39.00	
PARK		
TOTAL	0.00	
LOS ANGELES COUNTY SANITATION DIST NO 2	102.00	102.00
LOS ANGELES COUNTY WATERWORKS DISTRICT NO 13		
(NOW KNOWN AS LOMITA, CITY OF WATER SYSTEM WWD 13)		
LOS ANGELES COUNTY WATERWORKS	551.00	
DISTRICT NO 22		
SOLD TO SOUTHERN CALIF WATER CO	-551.00	
TOTAL	0.00	
LOS ANGELES COUNTY WESTERN AVE GOLF COURSE		
(FORMERLY BOARD OF RETIREMENT OF THE LOS ANGELES COUNTY		
EMPLOYEES RETIREMENT SYSTEM)		
(NOW KNOWN AS LOS ANGELES CHESTER L WASH GOLF)		
LOYOLA MARYMOUNT UNIVERSITY		
(FORMERLY LOYOLA UNIVERSITY OF LOS	48.10	48.10
ANGELES)		
MANHATTAN BEACH, CITY OF	1,131.20	1,131.20
MANVILLE SALES CORP	881.00	
(FORMERLY: JOHNS-MANVILLE SALES CORP JOHNS-MANVILLE		
PRODUCTS CORP MANVILLE SERVICE)		
SOLD TO ATLANTIC RICHFIELD CO	-881.00	
TOTAL	0.00	
MANVILLE SERVICE CORP		
(SEE JOHNS-MANVILLE SALES CORP)		
MARTIN BROTHERS BOX CO, INC	3.40	
SOLD TO SOUTHWEST STEEL ROLLING	-3.40	
MILLS		
TOTAL	0.00	
MAYFLOWER NURSERIES	0.00	0.00
(HERBERT SAKAYE FUKUWAI, DBA)		
MCCANDLESS, JAMES	6.70	
SOLD TO SPARKLETT'S DRINKING WATER	-6.70	
CORP		
TOTAL	0.00	
MCDONNELL DOUGLAS CORP		
(FORMERLY DOUGLAS AIRCRAFT, CO INC)		
LONG TERM LEASE FROM UNITED STATES	1.70	1.70
NAVY DEPARTMENT		
MOBIL OIL CORP		
(FORMERLY SOCONY MOBIL OIL CO)	2,570.00	
SUCCESSOR TO SUPERIOR OIL CO	26.40	
TOTAL		2,596.40
MONETA MUTUAL WATER CO	916.00	
SOLD TO CITY OF TORRANCE	-916.00	
TOTAL	0.00	
MONIZ, JOE JR	2.20	
SOLD TO STATE OF CALIFORNIA	-2.20	
TOTAL	0.00	
MORAN, RONALD E		
SUCCESSOR IN PART TO COLUMBIA	9.00	
BROADCASTING SYSTEM, INC		
SOLD TO CITY OF TORRANCE	-9.00	
TOTAL	0.00	
MORI, ROY H AND KENJI		
SECOND WEST COAST BASIN JUDGMENT	5.60	
SOLD TO NOZAKI, SUMIKICHI	-2.00	
TOTAL		3.60
MURDOCK, GEORGE R		
SUCCESSOR IN PART TO ISABELA J GRANZ	15.12	
SOLD IN PART TO R BARCLAY AND R A WATT	-13.75	
SOLD IN PART TO CITY OF INGLEWOOD	-1.37	
TOTAL	0.00	
NAKANO, KIKUNO, ET AL	19.30	
SOLD TO DOMINGUEZ WATER CORP	-19.30	
TOTAL	0.00	
NAVARRO, T C	53.90	
SOLD TO HILARIO S AND EMMA ALWAG	-53.90	
TOTAL	0.00	
NORAIR, A DIVISION OF NORTHROP CORP		
(FORMERLY KNOWN AS NORTHROP AIRCRAFT, INC)		
(NOW KNOWN AS NORTHROP CORP)		
NORMANDIE PARK		
SUCCESSOR TO COLLISTER, CAMERON	136.82	
SOLD TO CITY OF TORRANCE	-136.82	
TOTAL	0.00	
NORTHROP CORP		
(FORMERLY KNOWN AS NORAIR, A DIV OF	38.15	38.15
NORTHROP CORP)		
NOZAKI, SUMIKICHI		
SUCCESSOR IN PART TO MORI, ROY H AND	2.00	
KENJI		
SUCCESSOR IN PART TO UNITED	5.00	
CALIFORNIA BANK		
TOTAL		7.00
OSBORN, EMMA J		
SUCCESSOR IN PART TO ISABELA J GRANZ	32.66	
SOLD TO R BARCLAY AND R A WATT	-32.66	
TOTAL	0.00	

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

OTANI, CHISATO	0.00	0.00
PACIFIC CREST CEMETERY CO	17.70	
SUCCESSOR TO H S SCOTT	9.50	
SUCCESSOR TO WADA, KAORU AND	12.20	
SATORU		
TOTAL		39.40
PALOS VERDES BEGONIA FARM		
SUCCESSOR TO GUS A BAUMAN	0.00	0.00
PALOS VERDES WATER CO	999.00	
SOLD TO CALIFORNIA WATER SERVICE CO	-999.00	
TOTAL	0.00	
PARK WATER CO	160.00	
SOLD TO SOUTHERN CALIFORNIA WATER	-160.00	
TOTAL	0.00	
PARKE, ZORAIDA	1.80	
SOLD TO H L PERRY	-1.80	
TOTAL	0.00	
PASCHKE, WILLIAM JOSEPH	0.02	
ABANDONED WATER RIGHT	-0.02	
TOTAL	0.00	
PERRY, H L		
SUCCESSOR TO ZORAIDA PARKE	1.80	
SOLD TO HARRY C JENKINS	-1.80	
TOTAL	0.00	
PHILLIPS PETROLEUM CO		
(FORMERLY TIDEWATER OIL CO)	167.00	
SOLD TO GATX TANK STORAGE TERM CORP	-167.00	
TOTAL	0.00	
POTHOS CORP		
SUCCESSOR TO INOSE ET AL	5.40	
SOLD TO EVERGREEN AMERICA CORP	-5.40	
TOTAL	0.00	
REHOR, JOSEPHINE P	2.20	2.20
REIFSNYDER, JEANETTE R		
(NOW KNOWN AS JEANNETTE R HEYDENBECK)		
RHODIA, INC		
SUCCESSOR TO RHONE-POULENC INC	521.00	521.00
RHONE-POULINE BASIC CHEMICAL CO		
SUCCESSOR TO STAUFFER CHEMICAL CO	521.00	
SOLD TO RHONE-POULINE INC	-521.00	
TOTAL	0.00	
RHONE-POULENC INC		
SUCCESSOR TO RHONE-POULENC, BASIC	521.00	
CHEMICAL CO		
SOLD TO RHODIA, INC	-521.00	
TOTAL	0.00	
RICHFIELD OIL CORP		
(NOW KNOWN AS ATLANTIC RICHFIELD CO)		
ROBINSON, B, AND ASSOCIATES		
SUCCESSOR TO JAMES K LAWLER	3.10	
SOLD IN PART TO HARRIS TUBE, INC	-0.70	
SOLD IN PART TO SOUTHERN CALIFORNIA	-2.40	
WATER CO		
TOTAL	0.00	
ROCKWELL, MICHAEL L		
SUCCESSOR TO BANK OF AMERICA	0.10	
NATIONAL TRUST AND SAVINGS		
ASSOCIATION (TRUST B 1-51)		
SOLD TO LITTLE, WILLIAM	-0.10	
TOTAL	0.00	
RODRIGUEZ, FLAVIO	6.10	
SOLD TO STATE OF CALIFORNIA	-4.00	
DISCLAIMED WATER RIGHT	-2.10	
TOTAL	0.00	
ROMAN CATHOLIC ARCHBISHOP OF LOS	72.30	72.30
ANGELES (HOLY CROSS CEMETERY)		
RUFFNER CORP		
SUCCESSOR TO LOUIS M SEPULVEDA	0.70	
ABANDONED WATER RIGHT	-0.70	
TOTAL	0.00	
RYAN AERONAUTICAL CO	20.20	
SOLD TO SOUTHERN CALIFORNIA WATER	-20.20	
CO		
TOTAL	0.00	
SANTA FE LAND IMPROVEMENT CO	39.50	
SOLD TO HILLSIDE MEMORIAL PARK	-39.50	
TOTAL	0.00	
SCANDA, JAMES AND GEORGE NASSIN	1.90	
SOLD TO DONALD G HUNT	-1.90	
TOTAL	0.00	
SCHLAEGEL, KEITH W AND OPAL B	13.60	
SOLD TO SIDNEY R AND CHARLOTTE W	-13.60	
TITLE		
TOTAL	0.00	
SCOTT, H S		
SUCCESSOR TO W F BURKE AND LOIS	9.50	
PRICE		
QUITCLAIMED TO PACIFIC CREST	-9.50	
CEMETERY CO		
TOTAL	0.00	

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

SEABACK, ALFRED D AND RUTH	3.50	
SOLD TO LESLIE R FLESH AND OR	-3.50	
PASTERNAK, ET AL		
TOTAL		0.00
SEPULVEDA, LOUIS M	0.70	
ACQUIRED BY RUFFNER CORP	-0.70	
TOTAL		0.00
SHEETS, ESTHER M		
(FORMERLY CLYDE L SHEETS)		
(SEE DENNIS, ESTHER M SHEETS)		
SHELL OIL CO	4,516.00	
SUCCESSOR TO LAGERLOF, STANLEY C	3.50	
SOLD IN PART TO UNION OIL CO OF CAL	-1,974.00	
SOLD IN PART TO UNION OIL CO OF CAL	-1,526.00	
TOTAL		1,019.50
SHELL OIL PRODUCTS US		
SUCCESSOR TO EQUILON ENTERPRISES, LLC	3,432.00	3,432.00
SHINODA BROTHERS, INC		
SECOND WEST COAST BASIN JUDGMENT	22.50	
SOLD TO GARRETT CORP, THE	-22.50	
TOTAL		0.00
SMITH, A H,(SAM SURBER AND FRED A SMITH)	9.70	
SOLD IN PART TO STATE OF CALIFORNIA	-2.60	
SOLD IN PART TO GRAND LAND CO	-5.70	
SOLD IN PART TO L A CO FLOOD CONTROL DISTRICT	-1.40	
TOTAL		0.00
SOCONY MOBIL OIL CO		
(SEE MOBIL OIL CO)		
SOUTHERN CALIFORNIA EDISON CO	10.40	
SUCCESSOR TO ASSOCIATED SOUTHERN INVESTMENT CO	46.70	
TOTAL		57.10
SOUTHERN CALIFORNIA WATER CO	6,265.30	
SUCCESSOR TO EWING, CARMELITA ROSECRANS	91.30	
SUCCESSOR TO LOS ANGELES COUNTY WATERWORKS DIST NO 22	551.00	
SUCCESSOR TO PARK WATER CO	160.00	
SUCCESSOR TO RYAN AERONAUTICAL CO	20.20	
SUCCESSOR TO SOUTHERN PACIFIC CO	166.00	
SUCCESSOR IN PART TO OWEN W CURTIS	3.44	
SUCCESSOR IN PART TO B ROBINSON AND ASSOCIATES	2.40	
TOTAL		7,259.64
SOUTHERN PACIFIC CO	166.00	
SOLD TO SO CALIFORNIA WATER CO	-166.00	
TOTAL		0.00
SOUTHWEST STEEL ROLLING MILLS		
SUCCESSOR TO MARTIN BROTHERS BOX CO, INC	3.40	
SOLD TO COAST FOREST PRODUCTS	-3.40	
TOTAL		0.00
SPANISH AMERICAN INSTITUTE	44.40	
SOLD TO FUTURA INDUSTRIES, INC	-44.40	
TOTAL		0.00
SPARKLETT'S DRINKING WATER CORP		
SUCCESSOR TO ANDERSON, REMBERT C, ET AL	80.50	
SUCCESSOR TO CALIFORNIA, STATE OF	26.10	
SUCCESSOR TO KAHLERT, ET AL	18.90	
SUCCESSOR TO KURTZ, GLADYS	3.50	
SUCCESSOR TO MCCANDLESS, JAMES	6.70	
SUCCESSOR TO WECHSLER, B A	3.10	
SUCCESSOR IN PART TO KELLY PIPE CO	13.80	
SOLD TO WESTERN WATER CO	-152.60	
TOTAL		0.00
STANDARD OIL CO OF CALIFORNIA		
(NOW KNOWN AS CHEVRON U S A, INC)		
STAUFFER CHEMICAL CO	521.00	
SOLD TO RHONE-POULENC BASIC CHEMICALS CO	-521.00	
TOTAL		0.00
SUNRISE GROWERS, INC		
SUCCESSOR TO AMERICAN PLANT GROWERS INC	10.00	
SOLD TO AMERICAN PLANT GROWERS, INC	-10.00	
TOTAL		0.00
SUPERIOR OIL CO		
SUBJECT TO LONG TERM LEASE FROM ISABELA J GRANZ	26.40	
SOLD TO MOBIL OIL CORP	-26.40	
TOTAL		0.00
SWICK, PEGGY	5.50	
SOLD TO HILARIO AND EMMA ALWAG	-5.50	
TOTAL		0.00
TEXACO, INC		
(NOW KNOWN AS TEXACO REFINING AND MARKETING, INC)		
TEXACO REFINING AND MARKETING, INC	3,432.00	

SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST BASIN-JUNE 2003

(FORMERLY: TEXACO, INC)		
SOLD TO EQUILON ENTERPRISES, LLC	-3,432.00	
TOTAL		0.00
THAXTER, RALPH AND LOIS A LENOIR	3.50	
SOLD TO KENICHI INOSE	-3.50	
TOTAL		0.00
THORPE, GREGORY		
SUCCESSOR IN PART TO ESTATE OF JOHN GRANT	11.80	
SOLD TO DOMINGUEZ WATER CORP	-11.80	
TOTAL		0.00
THORPE, TERRENCE		
SUCCESSOR IN PART TO ESTATE OF JOHN GRANT	11.80	11.80
TIDEWATER OIL CO		
(SEE PHILLIPS PETROLEUM CO)		
TITLE, SIDNEY R AND CHARLOTTE W		
SUCCESSOR TO KEITH W AND OPAL B SCHLAEGE L	13.60	
SOLD TO ABC NURSERY, INC	-13.60	
TOTAL		0.00
TORRANCE, CITY OF	2,519.00	
SUCCESSOR TO BARCLAY HOLLANDER CORP	3.33	
SUCCESSOR TO BARCLAY, RICHARD AND WATT, R A	59.96	
SUCCESSOR TO BELVIDERE MUTUAL WATER CO	33.40	
SUCCESSOR TO DENNIS, ESTHER M SHEETS	5.50	
SUCCESSOR TO ALCAST FOUNDRY ET AL	7.20	
SUCCESSOR TO GONZALES, GABRIELA AND MARIA R	34.30	
SUCCESSOR TO JONES, ANNA MAE	50.20	
SUCCESSOR TO MONETA WATER CO	916.00	
SUCCESSOR TO MORAN, RONALD E	9.00	
SUCCESSOR TO NORMANDIE PARK	136.82	
SUCCESSOR TO TORRANCE UNIFIED SCHOOL DISTRICT	59.40	
SUCCESSOR TO UNITED STATES STEEL CORP	1,791.00	
SUCCESSOR TO WATT, R A, INC	13.75	
TOTAL		5,638.86
TORRANCE SAND AND GRAVEL CORP		
SUCCESSOR TO WESTON INVESTMENT CO	184.00	
SOLD TO CHANDLERS PALOS VERDES SAND AND GRAVEL CORP	-184.00	
TOTAL		0.00
TORRANCE UNIFIED SCHOOL DISTRICT		
SUCCESSOR TO HILARIO S AND EMMA ALWAG	59.40	
SOLD TO CITY OF TORRANCE	-59.40	
TOTAL		0.00
TOSCO CORP		
SUCCESSOR TO UNION OIL CO OF CALIF	6,170.00	
MERGED INTO CONOCOPHILLIPS COMPANY	-6,170.00	
TOTAL		0.00
TUNE, MATES, ET AL		
SUCCESSOR TO JOSEPHINE WATKINSON	3.10	
SOLD TO B A WECHSLER	-3.10	
TOTAL		0.00
UNION NURSERY, INC		
SECOND WEST COAST BASIN JUDGMENT	4.70	
SOLD TO CENTURY BUILDERS	-4.70	
TOTAL		0.00
UNION OIL CO OF CALIFORNIA	2,670.00	
SUCCESSOR IN PART TO SHELL OIL CO	1,974.00	
SUCCESSOR IN PART TO SHELL OIL CO	1,526.00	
SOLD TO TOSCO CORP	-6,170.00	
TOTAL		0.00
UNITED CALIFORNIA BANK		
SUCCESSOR TO BALLMAN, ROSEMARY N	7.00	
SOLD TO A B C NURSERY, INC	-2.00	
SOLD TO NOZAKI, SUMIKICHI	-5.00	
TOTAL		0.00
UNITED STATES NAVY DEPARTMENT	1.70	
LONG TERM LEASE TO MCDONNELL DOUGLAS CORP PER JUDGEMENT	-1.70	
TOTAL		0.00
UNITED STATES STEEL CORP	1,791.00	
SOLD TO TORRANCE, CITY OF	-1,791.00	
TOTAL		0.00
VERBURG, WILLIAM AND CLARA B	6.70	
SOLD TO ABC NURSERY, INC	-6.70	
TOTAL		0.00
WADA, KAORU AND SATORU	12.20	
SOLD TO PACIFIC CREST CEMETERY CO	-12.20	
TOTAL		0.00
WATKINSON, JOSEPHINE	3.10	
SOLD TO MATES TUNE, ET AL	-3.10	
TOTAL		0.00

**SUCCESSION OF ADJUDICATED RIGHTS IN WEST COAST
BASIN-JUNE 2003**

<u>WATSON LAND CO</u>	42.60	
SUCCESSOR IN PART TO DOMINGUEZ WATER CORP	37.60	
TOTAL		<u>80.20</u>
<u>WATT INDUSTRIAL PROPERTIES</u>		
SUCCESSOR TO WILLIAM LITTLE	0.10	<u>0.10</u>
WATT, R A, INC		
SUCCESSOR TO NED EWING, ET AL	6.50	
SUCCESSOR IN PART TO ISABELA J GRANZ ESTATE	13.75	
SUCCESSOR IN PART TO JOUGHIN TORRANCE RANCH	55.35	
SOLD TO DOMINGUEZ WATER CORP	-61.85	
SOLD TO CITY OF TORRANCE	-13.75	
TOTAL		0.00
WECHSLER, B A		
SUCCESSOR TO MATES TUNE, ET AL	3.10	
SOLD TO SPARKLETTS DRINKING WATER CORP	-3.10	
TOTAL		0.00
WESTERN WATER CO		
SUCCESSOR TO FLETCHER OIL AND REFINING CO	90.00	
SUCCESSOR TO SPARKLETTS DRINKING WATER CORP	152.60	
SOLD TO WESTERN WATER SERVICES CO	-242.60	
TOTAL		0.00
<u>WESTERN WATER SERVICES CO</u>		
SUCCESSOR TO WESTER WATER CO	242.60	<u>242.60</u>
<u>WESTON INVESTMENT CO</u>	184.00	
SOLD TO TORRANCE SAND AND GRAVEL CORP	-184.00	
TOTAL		0.00
<u>WISEBURN SCHOOL DISTRICT</u>	8.20	<u>8.20</u>
<u>WOODMAN, KATHERINE P</u>		
(SEE FRED A JUNGQUIST)		
<u>ZEIGLER, MAXWELL T</u>	0.00	<u>0.00</u>
 GRAND TOTAL	 64,468.25	 64,468.25

LEGEND

WEST COAST BASIN JUDGMENT-1961
SECOND WEST COAST BASIN JUDGMENT
CURRENT WATER RIGHT HOLDERS

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002						2003						: TOTAL	
: WELL	: DESIG-	:													
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	:	
A B C NURSERY, INC															
7002															
03S/13W-29F11S	1	5.30	4.20	1.74	3.14	2.33	0.41	1.86	1.06	1.53	2.17	2.57	3.03	29.34	
ALLIED-SIGNAL, INC															
7003															
03S/14W-35M07S	NEW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
AMERICAN PLANT GROWERS, INC															
7010															
04S/13W-19J06S	829M	6.83	2.38	5.76	3.26	2.72	1.04	2.48	2.94	4.87	6.88	5.46	4.52	49.14	
ATLANTIC RICHFIELD CO															
7025															
04S/13W-16J05S	00013	136.74E	131.50E	120.68E	119.33E	99.85E	96.94E	98.07E	13.41E	129.51E	178.50E	189.55E	171.84E	1485.92	
04S/13W-16R02S	00011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21H02S	00004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21H05S	00007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21H06S	00008	48.89E	50.06E	43.25E	48.92E	82.03E	112.74E	104.37E	106.11E	102.36E	96.82E	113.34E	102.88E	1011.77	
04S/13W-21H07S	00012	147.73E	115.59E	101.86E	41.83E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	407.01	
04S/13W-21J02S	00010	67.19E	62.22E	55.86E	54.69E	63.76E	88.78E	88.11E	81.68E	85.24E	80.20E	83.20E	76.88E	887.81	
04S/13W-22E01S	00005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-22F01S	00009	31.79E	32.83E	29.57E	31.13E	27.31E	25.39E	24.17E	9.37E	0.00	0.00	0.00	15.93E	227.49	
PARTY TOTALS:			392.20		295.90		323.85		210.57		355.52		367.53		
		432.34		351.22		272.95		314.72		317.11		386.09		4020.00	
ATLANTIC RICHFIELD CO (OIL RECOV)															
7026															
04S/13W-21L01S	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21L02S	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21P03S	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21P04S	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			0.00		0.00		0.00		0.00		0.00		0.00		
		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
CALIFORNIA WATER SERVICE CO															
7050															

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002						2003						: TOTAL	
: WELL	: DESIG-													:	
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
03S/14W-29H01S	30-01	84.42	80.75	79.18	24.13	0.42	0.00	23.41	74.87	84.81	77.08	84.68	81.58	695.33	
03S/14W-29J01S	22-01	120.32	101.60	107.52	37.52	0.27	0.00	14.98	105.53	108.73	107.46	113.60	100.86	918.39	
03S/14W-32A02S	08-02	81.61	89.42	94.72	31.17	0.08	0.10	26.65	83.24	85.78	77.68	86.42	87.47	744.34	
PARTY TOTALS:			271.77		92.82		0.10		263.64		262.22		269.91		
		286.35		281.42		0.77		65.04		279.32		284.70		2358.06	
CA WTR SERVICE CO/HAWTHORNE LEASE															
7052															
03S/14W-09M01S	00013	153.63	157.58	83.62	0.00	0.00	1.23	0.00	0.00	0.00	1.35	1.23	0.21	398.85	
03S/14W-09N04S	00004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-09N05S	00012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-09P01S	00008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			157.58		0.00		1.23		0.00		1.35		0.21		
		153.63		83.62		0.00		0.00		0.00		1.23		398.85	
CA WATER SERVICE CO (DOMINGUEZ)															
7053															
04S/13W-11P02S	294-0	0.00	2.13	2.24	0.23	0.08	0.00	0.50	0.00	2.23	0.00	0.00	0.00	7.41	
04S/13W-15A06S	RCOMP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-15A11S	215-0	56.98	109.09	103.17	102.17	100.13	105.88	98.62	94.52	90.78	89.86	85.55	98.00	1134.75	
04S/13W-15A14S	298-0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-15B05S	215-0	47.69	91.32	88.68	86.96	84.48	98.80	91.05	88.04	82.61	52.73	0.22	0.00	812.58	
04S/13W-15F01S	277-0	0.75	2.84	126.83	144.16	74.66	154.40	143.42	79.16	140.77	117.37	123.07	141.48	1248.91	
04S/13W-17D02S	219-0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-17D03S	219-0	268.56	221.36	226.36	245.92	260.91	274.62	253.40	233.56	247.98	241.47	248.41	233.60	2956.15	
04S/13W-20C01S	279-0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-29E06S	275-0	0.00	0.72	18.30	0.00	0.88	136.76	163.52	151.86	19.89	0.00	97.46	141.35	730.74	
PARTY TOTALS:			427.46		579.44		770.46		647.14		501.43		614.43		
		373.98		565.58		521.14		750.51		584.26		554.71		6890.54	
CA WTR SERV CO (BREWER DESALTER)															
7054															
04S/14W-10D03S	232-0	77.00	75.50	64.11	67.38	63.81	67.77	30.29	0.00	0.00	0.19	0.06	0.00	446.11	
04S/14W-10D04S	232-0	79.47	79.27	65.91	69.12	65.72	70.46	30.83	0.00	0.00	0.00	0.00	0.00	460.78	
PARTY TOTALS:			154.77		136.50		138.23		0.00		0.19		0.00		
		156.47		130.02		129.53		61.12		0.00		0.06		906.89	
CHANDLER PALOS VRDES SAND/GRAV CO															

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002						2003						: TOTAL	
: WELL	: DESIG-													:	
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
7080															
04S/14W-35E06S	SIDEB	38.30	34.56	29.27	21.75	12.10	3.33	14.39	8.46	10.59	21.46	25.32	26.20	245.73	
04S/14W-35F02S	PLANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:		38.30	34.56	29.27	21.75	12.10	3.33	14.39	8.46	10.59	21.46	25.32	26.20	245.73	
CONOCOPHILLIPS COMPANY															
7093															
04S/13W-21R01S	WI002							0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-21R10S	WI004							223.69E	192.46E	215.43E	191.74E	211.92E	207.37E	1242.61	
04S/13W-31N03S	LA005							200.40E	81.27E	97.52E	190.67E	189.78E	179.63E	939.27	
04S/13W-31N04S	LA006							111.19E	175.22E	197.77E	87.45E	88.90E	86.53E	747.06	
PARTY TOTALS:		0.00	0.00	0.00	0.00	0.00	0.00	535.28	448.95	510.72	469.86	490.60	473.53	2928.94	
DESSER ENTERPRISES															
7113															
04S/13W-15Q01S	878H	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	0.35E	4.20	
EVERGREEN AMERICA CORP															
7165															
03S/13W-29C08S	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FUJUMOTO, SR + ST + JK															
7201															
03S/13W-30A10S	00001	1.98	2.09	3.73	1.56	1.57	1.00	1.48	1.88	6.22	7.05	10.89	8.86	48.31	
HILLSIDE MEMORIAL PARK															
7270															
02S/14W-19K03S	2	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
02S/14W-19K04S	3	20.69	28.04	8.03E	6.04	8.54	1.39	7.02	5.49	9.52	17.93	14.63	13.19E	140.51	
PARTY TOTALS:		20.69	28.04	8.03	6.04	8.54	1.39	7.02	5.49	9.52	17.93	14.63	13.19	140.51	
INGLEWOOD,CITY OF															
7310															

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002							2003						: TOTAL
: WELL	: DESIG-														:
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
03S/14W-10F02S	4	152.69	116.77	0.00	0.00	178.24	223.21	213.48	194.09	202.96	177.14	171.54	192.39	1822.51	
03S/14W-10G03S	1	167.68	165.30	157.35	151.05	128.93	111.57	141.56	116.88	86.19	111.55	117.40	123.11	1578.57	
03S/14W-10G04S	2	140.29	134.87	135.99	139.59	130.93	129.80	126.99	116.55	83.79	130.14	100.03	122.01	1490.98	
PARTY TOTALS:			416.94		290.64		464.58		427.52		418.83		437.51		
		460.66		293.34		438.10		482.03		372.94		388.97		4892.06	
INGLEWOOD PARK CEMETERY															
7312															
02S/14W-27M01S	IP17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
02S/14W-27N02S	00021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
02S/14W-27N03S	00022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			0.00		0.00		0.00		0.00		0.00		0.00		
		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
LOS ANGELES, CITY OF															
7410															
04S/13W-30G01S	0310C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-30G03S	0320E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-30K01S	0320C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/13W-31E01S	MP001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			0.00		0.00		0.00		0.00		0.00		0.00		
		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
LOS ANGELES COUNTY ALONDRA PARK															
7420															
03S/14W-27C01S	00761	0.00	0.00	0.00	24.42	16.52	7.97	14.17	0.78	0.00	0.00	0.00	0.04	63.90	
LOS ANGELES COUNTY SANITN DIST 2															
7440															
04S/13W-30C01S	00819	21.99	9.71	0.00	0.00	19.19	26.78	27.37	27.49	24.33	23.79	24.08	21.91	226.64	
LOMITA,CITY OF WATER SYSTEM															
7450															
04S/14W-35E07S	00005	0.00	0.00	10.66	3.72	0.02	10.24	54.19	31.15	2.87	0.07	0.00	0.02	112.94	
LA COUNTY CHESTER WASHINGTON GOLF															

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002						2003						: TOTAL	
: WELL	: DESIG-													:	
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
7470															
03S/14W-11J02S	1397C	44.61	42.98	8.50	26.75	10.06	2.16	12.47	3.65	0.00	0.00	7.15	8.54	166.87	
MANHATTAN BEACH, CITY OF															
7490															
03S/14W-29C03S	15	90.80E	109.93E	76.69E	0.60E	1.01E	0.55E	0.56E	0.56E	0.74E	0.74E	117.74E	59.25E	459.17	
03S/14W-29D05S	11A	102.48E	142.87E	107.79E	1.13E	0.69E	1.06E	0.85E	0.69E	1.13E	0.94E	104.79E	81.29E	545.71	
PARTY TOTALS:			252.80		1.73		1.61		1.25		1.68		140.54		
		193.28		184.48		1.70		1.41		1.87		222.53		1004.88	
MOBIL OIL CORP															
7510															
04S/14W-03L02S	T0002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
04S/14W-03L03S	T0003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
04S/14W-03L04S	T0008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
04S/14W-03L07S	T0007	110.43E	67.67E	79.21E	60.74E	51.80E	64.67E	69.06E	71.81E	63.91E	58.48E	53.86E	47.52E	799.16	
04S/14W-03L08S	T0009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	
04S/14W-03M01S	T0006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			67.67		60.74		64.67		71.81		58.48		47.52		
		110.43		79.21		51.80		69.06		63.91		53.86		799.16	
MOBIL OIL CORP (OIL RECOVERY)															
7511															
	EW-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-02F01S	EW-5	25.60E	27.80E	27.80E	32.00E	22.70E	24.40E	18.39E	19.44E	24.15E	0.00	0.00	17.77E	240.05	
04S/14W-02L01S	EW-2	29.00E	26.70E	27.20E	32.60E	20.00E	14.40E	12.36E	20.89E	23.55E	0.00	10.07E	28.13E	244.90	
04S/14W-02L02S	EW-3	28.70E	26.10E	26.70E	23.20E	18.00E	21.90E	17.85E	19.68E	21.86E	0.00	7.21E	16.85E	228.05	
04S/14W-02L03S	EW-4	21.10E	18.80E	17.80E	27.20E	21.30E	21.80E	18.29E	21.00E	23.40E	0.00	1.59E	20.37E	212.65	
04S/14W-02M01S	RW-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-02M02S	RW-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-02M03S	RW-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-02M04S	EW-1	20.80E	27.10E	22.40E	9.60E	14.70E	20.80E	18.91E	21.54E	24.00E	0.00	3.17E	20.78E	203.80	
PARTY TOTALS:			126.50		124.60		103.30		102.55		0.00		103.90		
		125.20		121.90		96.70		85.80		116.96		22.04		1129.45	
PACIFIC CREST CEMETERY CO															
7580															

Appendix C – Ground Water Extractions

		PRODUCTION - WEST BASIN, 2002-2003														TOTAL
: STATE	: OWNERS	2002					2003								:	
: WELL	: DESIG-														:	
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN			
03S/14W-33E01S	00743	9.25	8.20	6.31	4.42	2.29	1.19	1.19E	0.98	1.52	3.94	3.86	4.81			47.96
RHODIA, INC																
7623																
04S/13W-10C02S	D001A	37.94	32.85	21.19	44.05	40.28	39.05	16.19	0.00	0.00	0.00	0.00	9.97			241.52
ROMAN CATHOLIC ARCHBISHOP OF L A																
7659																
02S/14W-18J01S	AA					0.10E	8.14	11.85	9.67	10.72	37.15	32.21	30.00E			139.84
02S/14W-18Q01S	HOLYX	0.00	0.00	0.00	0.00	0.14	0.02	0.00	3.82	0.00	10.42	13.03	15.82			43.25
02S/14W-18Q02S	HOLY1	1.24	0.00	6.69	0.00	0.00	0.00	0.06	0.00	0.12	1.57	0.13	5.99			15.80
PARTY TOTALS:			0.00		0.00		8.16		13.49		49.14		51.81			
		1.24		6.69		0.24		11.91		10.84		45.37				198.89
SHELL OIL PRODUCTS US																
7703																
04S/13W-22F02S	HA001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
04S/13W-22F07S	SRP12	34.71E	38.04E	34.71E	31.23E	32.50E	33.37E	34.06E	29.20E	32.29E	28.04E	30.23E	28.96E			387.34
04S/13W-27M05S	SHE09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
04S/13W-27N05S	SHE08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
04S/13W-27N06S	SHE12	303.56E	319.36E	304.92E	307.05E	274.59E	210.14E	208.09E	242.68E	268.48E	258.48E	259.07E	261.11E			3217.53
04S/13W-34F07S	SHE11	0.00	0.00	0.00	0.00	61.92E	219.81E	112.02E	72.87E	233.29E	232.63E	242.16E	213.51E			1388.21
PARTY TOTALS:			357.40		338.28		463.32		344.75		519.15		503.58			
		338.27		339.63		369.01		354.17		534.06		531.46				4993.08
SOUTHERN CALIFORNIA EDISON CO																
7720																
03S/14W-34B02S	FRESA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
03S/14W-34N04S	SCECO	2.49	2.30	2.64	1.12	2.02	0.55	1.40	1.06	1.71	1.63	2.61	2.19			21.72
04S/13W-14A07S	MORR1	0.25E	0.17E	0.15E	0.12E	0.06E	0.05E	0.08E	0.04E	0.07E	0.20E	0.00	0.14E			1.33
04S/13W-27A02S	HANSN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
PARTY TOTALS:			2.47		1.24		0.60		1.10		1.83		2.33			
		2.74		2.79		2.08		1.48		1.78		2.61				23.05
SOUTHERN CALIFORNIA WATER CO																
7730																
03S/14W-02Q01S	TRUR4	100.79	13.20	68.94	88.35	89.12	91.10	88.91	81.82	87.96	88.12	92.53	88.56			979.40

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002					2003							: TOTAL	
: WELL	: DESIG-														:
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
03S/14W-03K01S	YU001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-03K02S	YU002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-03K04S	YU005	0.00	0.89	3.29	26.31	0.11	3.93	0.00	0.10	0.00	0.00	0.46	0.43	35.52	
03S/14W-03L02S	YU004	161.65	158.98	155.96	155.88	130.28	138.95	138.09	124.96E	137.95	131.46	136.60	128.82	1699.58	
03S/14W-13B02S	BA003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-13B03S	BA004	149.16	149.51	144.21	146.54	141.30	138.81	141.79	128.24	140.59	134.58	139.77	134.60	1689.10	
03S/14W-13J09S	S0005	73.02	0.00	60.20	127.80	122.92	123.51	123.20	111.03	122.57	119.53	128.34	123.28	1235.40	
03S/14W-13J10S	S0006	121.01	123.34	116.16	112.24	106.56	103.15	101.34	90.81	98.47	96.86	96.51	99.97	1266.42	
03S/14W-14A01S	ELSE1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-14D02S	129#2	106.89	159.11E	155.55	157.22	149.75	149.45	148.79	134.77	147.61	148.14	154.18	147.21	1758.67	
03S/14W-15B03S	GOLDM	164.99	162.70	161.48	162.47	157.36	158.15	156.53	139.13	156.22	148.84	150.88	143.99	1862.74	
03S/14W-15P01S	DOTY1	102.63	102.26	69.71	82.72	83.25	92.76	87.05	82.22	83.45	74.88	80.16	92.84	1033.93	
03S/14W-15P02S	DOTY2	95.83	95.13	75.85	99.23	68.79	0.00	0.00	0.00	44.87	87.54	91.97	99.33	758.54	
03S/14W-21M01S	CH001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-22K01S	CERIS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03S/14W-22L01S	CD001	58.06	54.76	52.75	53.87	51.83	53.13	52.33	46.66	50.03	49.72	51.77	50.56	625.47	
03S/14W-22Q01S	0015B	0.01	0.00	0.00	0.00	0.02	0.17	0.00	0.00	0.00	0.00	0.00	0.08	0.28	
03S/14W-25P04S	DA001	65.60	63.46	60.26	60.47	55.04	54.93	54.55	49.07	53.83	51.94	54.95	53.07	677.17	
PARTY TOTALS:			1083.34		1273.10		1108.04		988.81		1131.61		1162.74		
		1199.64		1124.36		1156.33		1092.58		1123.55		1178.12		13622.22	
TORRANCE, CITY OF															
7850															
03S/14W-34C02S	6	63.56	110.37	126.97	196.56	113.29	0.00	0.00	0.00	0.00	9.56	105.77	153.06	879.14	
04S/14W-10K02S	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-10K03S	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
04S/14W-14K01S	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PARTY TOTALS:			110.37		196.56		0.00		0.00		9.56		153.06		
		63.56		126.97		113.29		0.00		0.00		105.77		879.14	
TOSCO CORP															
7865															
04S/13W-21R01S	WI002	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
04S/13W-21R10S	WI004	152.87E	97.76E	55.75E	223.96E	215.69E	222.47E							968.50	
04S/13W-31N03S	LA005	42.87E	109.48E	194.54E	201.68E	195.91E	203.14E							947.62	
04S/13W-31N04S	LA006	130.75E	109.11E	101.88E	96.39E	107.51E	102.46E							648.10	
PARTY TOTALS:			316.35		522.03		528.07		0.00		0.00		0.00		
		326.49		352.17		519.11		0.00		0.00		0.00		2564.22	
WATER REPLENISHMENT DIST OF SO CA															

Appendix C – Ground Water Extractions

PRODUCTION - WEST BASIN, 2002-2003															
: STATE	: OWNERS	2002					2003					:	TOTAL		
: WELL	: DESIG-													:	
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
7917															
04S/14W-09A01S	MAD-2	283.80	268.54	165.81	62.65	0.00	151.64	352.63	216.54	237.25	247.09	209.41	256.10	2451.46	
BASIN TOTALS:			4571.52		4115.69		4222.77		3822.35		4111.58		4686.14		
		4695.32		4304.75		3788.72		4330.90		4216.37		4571.84		51437.95	

PRODUCTION - WEST BASIN 02-03															
: STATE	: OWNERS	2002					2003					:	TOTAL		
: WELL	: DESIG-											:			
: NUMBER	: NATION	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN		
CARSON AUTO, INC															
7058															
04S/13W-15K05S				0.00			0.00			0.00			0.00	0.00	
BASIN TOTALS:			0.00		0.00		0.00		0.00		0.00		0.00		
		0.00		0.00		0.00		0.00		0.00		0.00		0.00	

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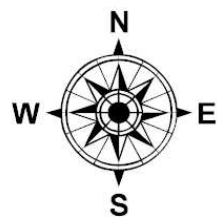
APPENDIX D. CHANGE IN WELL STATUS

Party	Recordation Number	State Well No.	Owner Designation
<u>New Wells</u>			
Roman Catholic Archbishop of L A	1900005	02S/14W-18J01 S	AA
Hillside Memorial Park	1900004	02/S14W-19K04 S	3
<u>Destroyed Wells</u>			
Hillside Memorial Park	No record	02S/14W-19K02 S	1-East
Hillside Memorial Park	1900003	02S/14W-19K03 S	2
Mobil Oil Corporation	1901129	04S/14W-03L02 S	T0002
Mobil Oil Corporation	1901130	04S/14W-03L03 S	T0003
Mobil Oil Corporation	1901131	04S/14W-03L04 S	T0008
Mobil Oil Corporation	1909823	04S/14W-03L08 S	T0009

Active Wells in West Coast Basin



Pacific Ocean



0 2 4 8 Miles

A horizontal scale bar with black segments. The numbers 0, 2, 4, and 8 are placed above the bar, with the word "Miles" at the right end.

Legend

- West Basin Boundary
- West Basin Active Wells
- Pumper & City Boundaries

